**3GPP TSG-RAN WG2 Meeting #112 electronic R2-2xxxxxx**

**Online, November, 2020**

**Source: RAN2 Chairman (Mediatek)**

**Title: Agenda**

# Email Discussion List, Main Session

Email discussions with Deadline ***Short UE Cap*** are expected to produce endorsed Draft CRs (to be merged w main NR UE caps), with the deadline ***Nov 6***

* [AT112-e][000] Organizational Main (Chairman)

Scope:

* [AT112-e][001][NR15] Stage-2 Corrections (Nokia)

Treat R2-2008816, R2-2008817, R2-2008818, R2-2008819, R2-2008820, R2-2009308, R2-2009309, R2-2009310, R2-2009311, R2-2008821, R2-2008822

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][002][NR15] MAC I (MediaTek)

Treat R2-20010621, R2-201330, R2-201679, R2-201680, R2-2009348, R2-2009792, R2-2009793, R2-2010156, R2-2010157, R2-2010165, R2-2010166

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][003][NR15] MAC II (Samsung)

Treat R2-2008909, R2-2010622, R2-2010623, R2-2010624, R2-2010426, R2-2010318, R2-2009910, R2-2009911, R2-2010418, R2-20010164, R2-2009482

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][004][NR15] PDCP (Apple)

Treat R2-2009481, R2-2010559. R2-2010560, R2-2010667, R2-2010668

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][005][NR15] RRC Conn Control I (Qualcomm)

Treat R2-2008715, R2-2009183, R2-2009184, R2-2009185, R2-2010563, R2-2010665, R2-2010666, R2-2009355, R2-2009356, R2-2009844, R2-2009845, R2-2010530, R2-2010531, R2-2010557, R2-2010558

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][006][NR15] RRC Conn Control II (ZTE)

Treat R2-2009580, R2-2009581, R2-2009579, R2-2009697, R2-2009233, R2-2009234, R2-2009235, R2-2009698, R2-2009699, R2-2010492, R2-2010584, R2-2009236, R2-2009237, R2-2009582, R2-2009583, R2-2009478

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][007][NR15] System Information and Idle mode (ZTE)

Treat R2-2009394, R2-2009398, R2-2010414, R2-2010436, R2-2009808- R2-2009811, R2-2009782 (from AI 5.4.4, see further below)

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][008][NR15] inter-node RRC (Huawei)

Treat R2-2008727, R2-2010542, R2-2009242, R2-2009243, R2-2010357, R2-2009159, R2-2009160, R2-2009161, R2-2010359, R2-2010360,

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][009][NR15] RRC Misc (Ericsson)

Treat R2-2009840, R2-2009842, R2-2009843, R2-2009074 - R2-2009077, R2-2009477

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][010][NR15] LTE changes (Nokia)

Treat R2-2009950, R2-2008823, R2-2008824, R2-2009946, R2-2010600, R2-2010601

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][011][NR15] UE caps I (Ericsson)

Treat R2-2010512, R2-2010513, R2-2010238, R2-2009630, R2-2010567, R2-2010568, R2-2010539, R2-2010538, R2-2010517 - R2-2010520, R2-2010084

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][012][NR15] UE caps II (ZTE)

Treat R2-2008710, R2-2009238, R2-2009239, R2-2009162, R2-2009163, R2-2009516, R2-2009517, R2-2010537, R2-2010536, R2-2010541, R2-2010540, R2-2009944

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][013][NR15] UE caps III (Huawei)

Treat R2-2009480, R2-2008734, R2-2008770, R2-2008771, R2-2010241, R2-2010242, R2-2009392, R2-2009393, R2-2010239, R2-2010240, R2-2010545, R2-2010546, R2-2010561, R2-2010562

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][014][NR16] RRC general (Ericsson)

Scope:

Intended outcome:

Deadline:

* [AT112-e][015][NR16] UE cap Main (Intel)

Scope: a) Treat tdocs on specific issues as assigned. b) Take into account updated feature lists and UE caps LSes from R1 and R4. c) Merge endorsed output from other R16 UE caps (306 331) email discussions. d) Produce final mega CRs 38306 38331 for RP.

High level plan (detailed deadlines by rapporteur as needed):

Week 1: Resolve specific issues and agree / endorse 331 306 specific changes based on assigned tdocs.

Week 2: Review of updated R1 R4 feature lists and other LS in if any. Take into account outcome of separate short discussions. Review and Agree on corresponding updates to 306 331 based on rapporteur proposal. Rapporteur proposal expected Tuesday Nov 10.

Week 3 (the week after the meeting): Merge of Draft CRs from other long UE caps discussions. Final checking of the mega CRs.

Intended outcome: Agreed CRs 306 331

* AT112-e][016][NR16] Dyn UL skip and other (vivo)

Treat R2-2008711, R2-2009824, R2-2009484, R2-2010051, R2-10010317, R2-2009813, R2-2009485, R2-2009819, R2-2009587, R2-2009486, R2-2010565, R2-2010162

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][017][IAB] Stage-2 (Huawei)

Treat tdocs under 6.2.1

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][018][IAB] BAP (Samsung)

Treat tdocs under 6.2.2

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][019][IAB] NR RRC 38331 (Huawei)

Treat 38331 tdocs under 6.2.4

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][020][IAB] LTE RRC 36331 (vivo)

Treat 36331 tdocs under 6.2.4

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][021][IAB] UE capabilities (Nokia)

Treat tdocs under 6.2.5

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Short UE caps

* [AT112-e][022][R4 NR16] MPE (Nokia)

Treat R2-2009690, R2-2008910, R2-2009164, R2-2009906, R2-2010289, R2-2009166, R2-2010515, R2-2009165, R2-2010516

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][023][R4 NR16] UL 7.5kHz Shift (Apple)

Treat R2-2008740, R2-2009466, R2-2009467, R2-2009468, R2-2009469, R2-2009470, R2-2009471, R2-2009700, R2-2009701, R2-2010227

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][024][R4 NR16] DC Location (Apple)

Determine how to report, what to report, which scenarios to support etc. Treat R2-2010673, R2-2009167, R2-2009168, R2-2010171, R2-2010048, R2-2010228, R2-2009518, R2-2010409, R2-2009371, R2-2010471, R2-2009306

Intended outcome: Determine agreeable parts, Report. For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: EOM (can come back on-line dep on progress)

* [AT112-e][025][R4 NR16] CSI-RS for Mobility (Huawei)

Treat R2-2008749, R2-2010585, R2-2010586, R2-2009775, R2-2009776, R2-2009777, R2-2009365,

Intended outcome: Determine agreeable parts. For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][026][R4 NR16] Miscellaneous (Huawei)

Treat R2-2008747, R2-2010598, R2-2010599, R2-2010358, R2-2008741, R2-2009346, R2-2010226, R2-2009245, R2-2009544

Intended outcome: Determine agreeable parts. For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC, If feasible, NR UE caps 38306 38331 deadline Nov 6.

* [AT112-e][027][NR TEI16] NeedForGap (QC)

Treat R2-2009401,

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Short UE Cap

* [AT112-e][028][NR TEI16] Misc Corrections I (Ericsson)

Treat R2-2010514, R2-2009947, R2-2009948, R2-2009949, R2-2008893, R2-2008894, R2-2008895, R2-2009604, R2-2009605, R2-2009606, R2-2010510, R2-2010511, R2-2009985

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][029][NR TEI16] Misc Corrections II (ZTE)

Treat R2-2009488, R2-2009489, R2-2009244, R2-2009812, R2-2010081, R2-2010543, R2-2009240, R2-2009241, R2-2010202, R2-2009849

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][030][eIAB] Fairness Latency Congestion (Samsung)

Scope: A) Confirm easy agreeable proposals captured in R2-2009073 (short deadline), make modifications to the proposals if needed for final agreement.

B) From R2-2009073 and input contributions below put applicable solution proposals on the table, with a short principal solution description, how the solution is intended to help and possibly comments on complexity, if applicable. In case there are many solutions, initial focus could be on promising and widely proposed/supported solutions. Further discussion and decision making is expected on-line week 2.

Intended outcome: Report

Deadline: Ready Nov 11 (for on-line discussion Nov 11), Intermediate deadlines by Rapporteur.

* [AT112-e][031][eIAB] Topology Adaptation (QC)

Scope: A) Confirm at least easy agreeable proposals captured in R2-2009292 (short deadline), make modifications to the proposals if needed for final agreement.

B) From R2-2009292 and input contributions below put applicable solution proposals on the table, with a short principal solution description, how the solution is intended to help and possibly comments on complexity, if applicable. In case there are many solutions, initial focus could be on promising and widely proposed/supported solutions. Further discussion and decision making is expected on-line week 2.

Intended outcome: Report

Deadline: Ready Nov 11 (for on-line discussion Nov 11), Intermediate deadlines by Rapporteur.

* [AT112-e][032][NR17] eNPN LS (Futurewei)

Scope: Treat R2-2010691. Determine status / collect comments among RAN2 companies regarding the asked questions. Attempt agreements in RAN2 on aspects for which agreement seems feasible (if any). Create a reply LS. Depending on progress, some aspects may be brought online week2

Intended outcome: Report and Approved LS out

Deadline: Final: End of meeting. Intermediate deadlines by rapporteur.

* [AT112-e][033][NR17] Introduction of 35 and 45 MHz channel Bandwidths (T-Mobile US)

Scope: Treat R2-2010133.

Intended outcome: Approved LS out

Deadline: Final: Wed Nov 11

* [AT112-e][034][IoT-NTN] Scenarios (Eutelsat)

A) In general, as stated above: Confirm Scenario Assumptions, e.g. from WID, from TR38.821 for the purpose of RAN2 continued work. Intention is not to replace or preempt R1 scenario work.

B) Specifically, cover relevant proposals in tdocs submitted to this AI.

Intended outcome: Report with agreements and/or acceptable assumptions

Deadline: End of meeting, intermediate deadlines by the rapporteur.

* [AT112-e][035][IoT-NTN] Applicability of TR 38.821 (MediaTek)

A) In general, Identify the extent parts of TR38.821 can be re-used or not re-used for NB-IoT/eMTC support for NTN, identify points for necessary discussions. Focus on R2 led sub-objectives as listed in the SID

B) Specifically, cover relevant proposals in tdocs submitted to this AI.

Intended outcome: Report with agreements

Deadline: End of meeting, intermediate deadlines by the rapporteur.

* [AT112-e][036][MBS] SA2 LS on MBS (Huawei)

Scope: Reply to R2-2008755 Can if needed come back on-line.

Intended outcome: Approved LS out

Deadline: EOM

* [AT112-e][037][IAB] User Plane (Ericsson)

Treat tdocs under 6.2.3

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

* [AT112-e][038][NR QoE] (Ericsson)

Scope: Treat and take into account LS in in R2-2008728. Attempt to identify what the R3 decision may mean for R2. If possible put on the table relevant / promising options for R2, and capture relevant characteristics of the options. If found needed, make and approve a Reply LS to R3

Intended outcome: Report that can be a first step towards making decisions, possibly also an LS out.

Deadline: EOM

* [AT112-e][039][NR16] SI acquisition (Ericsson)

Scope: Treat remaining aspects of papers under 6.1.1 “SI Acquisition”. Identify agreeable parts and agree them. For agreed parts, agree revised CRs.

Intended outcome: Report, agreed CRs.

Deadline: Agreements ready at EOM, Rapporteur may set intermediate deadlines

* [AT112-e][040][IIOT] RRC and UE cap Corrections (CATT)

Scope: Treat tdocs in AI 6.5.2, and AI 6.5.5 (see below)

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

Short Deadline: UE Cap Endorsed CRs 38306 (if agreeable): Nov 6.

* [AT112-e][041][IIOT] MAC I (Huawei)

Scope: Treat tdocs R2-2009500, R2-2009373, R2-2009375, R2-2009483 R2-20010054, R2-2009541, R2-2009374

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

* [AT112-e][042][IIOT] MAC II (Samsung)

Scope: Treat tdocs, R2-2009599, R2-2009752, R2-2010525,R2-2009048, R2-2009372, R2-2010052,

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

* [AT112-e][043][IIOT] MAC II (Nokia)

Scope: Treat R2-2009539, R2-2009540, R2-2009753, R2-2010053, R2-2010100, R2-2010522

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

* [AT112-e][044][IIOT] PDCP (Ericsson)

Scope: Treat tdocs in AI 6.5.4.1, AI 6.5.4.2

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

* [AT112-e][045][NR16] Extension of ToAddMod lists (Mediatek)

Scope: Continue discussion on P10, P11, converge to agreements if possible. Review and agree CR.

Intended outcome: Report, agreed CR (if possible)

Deadline: EOM, intermediate deadlines by the Rapporteur.

* [AT112-e][046][NR16] Out-of-order CBG-based re-transmission (Ericsson)

Scope: Treat incoming LS (when it arrives), R2 input (R2-2010049), and make and agree on related Draft CRs.

Intended outcome: Endorsed Draft CRs

Deadline: by the Rapporteur (dep on R1).

General

RAN2 112e (electronic) has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

Specific methodology

R2 111e is conducted by email, ftp and by on-line web conferences by GoToWebinar + Torhu, in three parallel sessions. To facilitate easy treatment, some AIs/topics may be summarized in summary tdocs. If not assigned in the Agenda, summaries are assigned at/right after tdoc submission

Tdoc Limitation

Tdoc Limitation limits the number of allowed input tdocs for a company as indicated for an Agenda Item for all types of documents. Rapporteur input (email discussion, WI rapporteur, TS rapporteur, assigned CR editor, assigned summary rapporteur etc) and at-meeting decided tdocs do not count towards a tdoc limitation.

Rel-16

Most Rel-16 items do no longer have a tdoc limitation. You are anyway asked to not submit high numbers of tdocs. Please put all change proposals that can logically/reasonably be discussed together in a single tdoc. Do not have repetition between tdocs. Please do not submit both discussion doc and CRs on a topic. If a discussion tdoc is needed, then use a TP as an Annex (and if agreed it can be moved to a CR at the meeting).

Rel-16 miscellaneous corrections CRs

Editors for Rel-16 WI Cat B CRs are asked to, if needed, prepare or be ready to prepare (at the meeting) a miscellaneous corrections CR for their WI/TS. Companies are encouraged to coordinate with the Cat B CR editors for small changes, clarifications, text enhancements etc.

Rel-16 NR UE capabilities

R16 NR UE capabilities related to R1 feature list, R4 feature list and R2 features / capabilities are handled in a common session under Agenda item 6.1.2. R16 NR UE capability modifications are merged into two Mega CRs (38306 38331). Exceptions: DAPS capability is handled under NR mobility AI. V2X capabilities are handed under the V2X AI. NR-U capabilities (Ref RP discussion) is handled in the NR-U parallel session. Other exceptions TBD

# 1 Opening of the meeting

**This e-Meeting**

- This e-Meeting follows 3GPP principles for e-Meetings.

- RAN2 112 electronic has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

- Descriptions on how this meeting is conducted can be found in tdoc on Guidelines under agenda item 2.4 below

## 1.1 Call for IPR

|  |
| --- |
| The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.  The delegates were asked to take note that they were hereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc) |

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

## 1.2 Network usage conditions

## 1.3 Other

|  |
| --- |
| In accordance with the Working Procedures it is reaffirmed that:  (i) compliance with all applicable antitrust and competition laws is required;  (ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and  (iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP |

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

## 2.1 Approval of the agenda

[R2-2008700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008700.zip) Agenda for RAN2#112-e Chairman agenda Late

## 2.2 Approval of the report of the previous meeting

[R2-2008701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008701.zip) RAN2#111-e Meeting Report MCC report Late

## 2.3 Reporting from other meetings

## 2.4 Others

[R2-2010988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010988.zip) RAN2#112-e Meeting\_Guidelines MCC discussion

# 3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

# 4 EUTRA corrections Rel-15 and earlier

See Appendix A for reference to Work items, work item codes and WIDs.

Only essential corrections. No documents should be submitted to 4. Please submit to 4.x

## 4.1 NB-IoT corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.2. No web conference is planned for this agenda item

## 4.2 eMTC corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.1. No web conference is planned for this agenda item.

Including outcome of [Post111-e][922][NBIOT/eMTC R15] UP EDT for DRB using RLC AM (Huawei)

[R2-2009723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009723.zip) Report of e-mail discussion [Post111-e][922][NB-IoT/eMTC R15] UP EDT for DRB using RLC AM (Huawei) Huawei, HiSilicon report Rel-15 NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2009724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009724.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-15 36.300 15.11.0 1298 1 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2007328

[R2-2009725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009725.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-16 36.300 16.3.0 1299 1 A NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2007329

[R2-2009726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009726.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-15 36.331 15.11.0 4477 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2009727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009727.zip) Clarification to UP-EDT Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4478 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2009734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009734.zip) Addition of cross-TTI MIB/SIB-BR decoding capability Huawei, HiSilicon CR Rel-15 36.306 15.9.0 1793 - F LTE\_eMTC4-Core

[R2-2009735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009735.zip) Addition of cross-TTI MIB/SIB-BR decoding capability Huawei, HiSilicon CR Rel-16 36.306 16.2.0 1794 - A LTE\_eMTC4-Core

## 4.3 V2X and Sidelink corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session.

[R2-2008769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008769.zip) IEEE 1609 WG Liaison Message to 3GPP regarding defined values for V field in the Release 14 specification of MAC header IEEE 1609 WG LS in Rel-14 To:RAN2 Cc:RAN, RAN1

[R2-2009181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009181.zip) Corrections on MAC reset regarding SL BSR cancellation Ericsson CR Rel-12 36.321 12.10.0 1506 - F LTE\_D2D\_Prox-Core

[R2-2009213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009213.zip) Corrections on MAC reset regarding SL BSR cancellation Ericsson CR Rel-13 36.321 13.9.0 1507 - A LTE\_D2D\_Prox-Core

[R2-2009214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009214.zip) Corrections on MAC reset regarding SL BSR cancellation Ericsson CR Rel-14 36.321 14.13.0 1508 - A LTE\_D2D\_Prox-Core

[R2-2009215](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009215.zip) Corrections on MAC reset regarding SL BSR cancellation Ericsson CR Rel-15 36.321 15.10.0 1509 - A LTE\_D2D\_Prox-Core

[R2-2009216](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009216.zip) Corrections on MAC reset regarding SL BSR cancellation Ericsson CR Rel-16 36.321 16.2.0 1510 - A LTE\_D2D\_Prox-Core

[R2-2009402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009402.zip) Discussion on the IEEE incoming LS on MAC header V field for LTE V2X SL communication Huawei, Ericsson, CATT, LG Electronics Inc., Samsung, OPPO, ZTE, Sanechips, HiSilicon discussion Rel-14

[R2-2009832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009832.zip) UE capability for EUTRA V2X in DC vivo discussion

[R2-2010336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010336.zip) Correction on the capability bit v2x-EUTRA of option-1 vivo CR Rel-15 38.306 15.11.0 0444 - F NR\_newRAT-Core

[R2-2010337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010337.zip) Correction on the capability bit v2x-EUTRA of option-2 vivo CR Rel-15 38.306 15.11.0 0445 - F NR\_newRAT-Core

[R2-2010338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010338.zip) Correction on the capability bit v2x-EUTRA of option-3 vivo CR Rel-15 38.331 15.11.0 2206 - F NR\_newRAT-Core

## 4.4 Positioning corrections Rel-15 and earlier

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

## 4.5 Other LTE corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session.

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

[R2-2008901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008901.zip) Removal of DelayBudgetReport message in stage 3 Lenovo, Motorola Mobility CR Rel-14 36.331 14.15.0 4450 - F LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2008902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008902.zip) Removal of DelayBudgetReport message in stage 3 Lenovo, Motorola Mobility CR Rel-15 36.331 15.11.0 4451 - A LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2008903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008903.zip) Removal of DelayBudgetReport message in stage 3 Lenovo, Motorola Mobility CR Rel-16 36.331 16.2.1 4452 - A LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2008904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008904.zip) Removal of DelayBudgetReport message in stage 2 Lenovo, Motorola Mobility CR Rel-14 36.300 14.12.0 1317 - F LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2008905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008905.zip) Removal of DelayBudgetReport message in stage 2 Lenovo, Motorola Mobility CR Rel-15 36.300 15.11.0 1318 - A LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2008906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008906.zip) Removal of DelayBudgetReport message in stage 2 Lenovo, Motorola Mobility CR Rel-16 36.300 16.3.0 1319 - A LTE\_VoLTE\_ViLTE\_enh-Core

[R2-2009428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009428.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-12 36.331 12.19.0 4427 2 F LTE\_CA-Core, TEI12 R2-2008152

[R2-2009429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009429.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-13 36.331 13.16.0 4428 2 A LTE\_CA-Core, TEI12 R2-2008153

[R2-2009430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009430.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-14 36.331 14.15.0 4429 2 A LTE\_CA-Core, TEI12 R2-2008154

[R2-2009431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009431.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 36.331 15.11.0 4430 2 A LTE\_CA-Core, TEI12 R2-2008155

[R2-2009432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009432.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-16 36.331 16.2.1 4431 2 A LTE\_CA-Core, TEI12 R2-2008156

[R2-2009565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009565.zip) PDCP re-establishment for normal DRBs configured with RLC OOD and ROHC Samsung discussion Rel-15 TEI15, LTE\_HRLLC-Core

[R2-2009566](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009566.zip) CR on PDCP re-establishment when t-Reordering is used Samsung CR Rel-15 36.323 15.6.0 0292 - F TEI15, LTE\_HRLLC-Core

[R2-2009567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009567.zip) CR on PDCP re-establishment when t-Reordering is used Samsung CR Rel-16 36.323 16.2.0 0293 - F TEI16, LTE\_HRLLC-Core

[R2-2009568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009568.zip) Clarification on ROHC configuration Samsung discussion Rel-15 TEI15, LTE\_HRLLC-Core

[R2-2009569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009569.zip) Correction on ROHC configuration Samsung CR Rel-15 36.331 15.11.0 4470 - F TEI15, LTE\_HRLLC-Core

[R2-2009570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009570.zip) Correction on ROHC configuration Samsung CR Rel-16 36.331 16.2.1 4471 - F TEI16, LTE\_HRLLC-Core

[R2-2009571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009571.zip) Correction on lch-CellRestriction Samsung CR Rel-15 36.321 15.10.0 1511 - F TEI15, LTE\_HRLLC-Core

[R2-2009572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009572.zip) Correction on lch-CellRestriction Samsung CR Rel-16 36.321 16.2.0 1512 - F TEI16, LTE\_HRLLC-Core

[R2-2009763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009763.zip) Correction to RRC resume for CIoT Google Inc. CR Rel-13 36.331 13.16.0 4484 - F TEI13

[R2-2009764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009764.zip) Correction to RRC resume for CIoT Google Inc. CR Rel-14 36.331 14.15.0 4485 - A TEI13

[R2-2009801](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009801.zip) Miscellaneous Stage-2 corrections Nokia (rapporteur), NEC CR Rel-15 36.300 15.11.0 1323 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core, TEI15

[R2-2009921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009921.zip) Corrections to the field descriptions for TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-15 36.331 15.11.0 4389 2 F TEI15 R2-2008157

[R2-2009922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009922.zip) Corrections to the field descriptions for TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4390 2 A TEI15 R2-2008158

[R2-2010153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010153.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-14 36.321 14.13.0 1513 - F LTE\_VoLTE\_ViLTE\_enh

[R2-2010154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010154.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-15 36.321 15.10.0 1514 - F LTE\_VoLTE\_ViLTE\_enh

[R2-2010155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010155.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-16 36.321 16.2.0 1515 - F LTE\_VoLTE\_ViLTE\_enh

# 5 Rel-15 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: RP-191971)

Corrections to address issues for functionality developed for NR\_newRAT-Core.

**Note:** Corrections to functionality developed for Rel-15 WI NR\_newRAT-Core shall by default be done for both Rel-15 and Rel-16 (Cat F + Cat A). The marketing status for Rel-15 is however different to Rel-16. For specific corrections when needed it may be valid to discuss whether to make such correction instead only for Rel-16. When/if applicable, email discussions shall determine Release applicablity for such corrections. Rel-16-only corrections to NR\_newRAT-Core need to list both WIs NR\_newRAT-Core and TEI16 on the cover sheet.

## 5.1 Organisational

Incoming LSs, etc.

[R2-2008733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008733.zip) Reply LS on UE capability xDD differentiation for SUL/SDL bands (R4-2011687; contact: ZTE) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN2 Cc:RAN1

Proposed Noted [000]

## 5.2 Stage 2 corrections

You should discuss your stage 2 CRs with the specification rapporteurs before submission.

* [AT112-e][001][NR15] Stage-2 Corrections (Nokia)

Treat R2-2008816, R2-2008817, R2-2008818, R2-2008819, R2-2008820, R2-2009308, R2-2009309, R2-2009310, R2-2009311, R2-2008821, R2-2008822

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

### 5.2.1 TS 3x.300

[R2-2008816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008816.zip) Clarification of SCell setup during inter-RAT HO Nokia, Nokia Shanghai Bell discussion NR\_newRAT-Core

[R2-2008817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008817.zip) Clarification of SCell setup during inter-RAT HO Nokia, Nokia Shanghai Bell CR Rel-15 38.300 15.11.0 0297 - F NR\_newRAT-Core

[R2-2008818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008818.zip) Clarification of SCell setup during inter-RAT HO Nokia, Nokia Shanghai Bell CR Rel-16 38.300 16.3.0 0298 - A NR\_newRAT-Core

[R2-2008819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008819.zip) Clarification of SCell setup during inter-RAT HO Nokia, Nokia Shanghai Bell CR Rel-15 36.300 15.11.0 1315 - F NR\_newRAT-Core

[R2-2008820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008820.zip) Clarification of SCell setup during inter-RAT HO Nokia, Nokia Shanghai Bell CR Rel-16 36.300 16.3.0 1316 - A NR\_newRAT-Core

[R2-2009308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009308.zip) UE Capabilities Description Nokia (Rapporteur), Ericsson, Nokia Shanghai Bell, Qualcomm Incorporated, Sanechips, ZTE CR Rel-15 38.300 15.11.0 0301 - F NR\_newRAT-Core

[R2-2009309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009309.zip) UE Capabilities Description Nokia (Rapporteur), Ericsson, Nokia Shanghai Bell, Qualcomm Incorporated, Sanechips, ZTE CR Rel-16 38.300 16.3.0 0302 - A NR\_newRAT-Core

[R2-2009310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009310.zip) Cell Terminology Nokia (Rapporteur), Nokia Shanghai Bell, Sanechips, ZTE CR Rel-15 38.300 15.11.0 0303 - F NR\_newRAT-Core

[R2-2009311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009311.zip) Cell Terminology Nokia (Rapporteur), Nokia Shanghai Bell, Sanechips, ZTE CR Rel-16 38.300 16.3.0 0304 - A NR\_newRAT-Core

### 5.2.2 TS 37.340

[R2-2008821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008821.zip) UE Capabilities Description Nokia, Nokia Shanghai Bell, ZTE Corporation (rapporteur) CR Rel-15 37.340 15.10.0 0232 - F NR\_newRAT-Core

[R2-2008822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008822.zip) UE Capabilities Description Nokia, Nokia Shanghai Bell, ZTE Corporation (rapporteur) CR Rel-16 37.340 16.3.0 0233 - A NR\_newRAT-Core

## 5.3 Stage 3 user plane corrections

### 5.3.1 MAC

* [AT112-e][002][NR15] MAC I (MediaTek)

Treat R2-20010621, R2-201330, R2-201679, R2-201680, R2-2009348, R2-2009792, R2-2009793, R2-2010156, R2-2010157, R2-2010165, R2-2010166

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

**Configured grant related**

[R2-2010621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010621.zip) Activation of CG and DRX Inactivity Timer Ericsson discussion NR\_newRAT-Core

[R2-2010330](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010330.zip) Clarification on LCP restriction for configured grant type 1 MediaTek Inc. discussion Rel-15 NR\_newRAT-Core

[R2-2010679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010679.zip) CR on TS 38.331 for LCP restriction of configured grant type 1 MediaTek CR Rel-15 38.331 16.2.0 2272 - F NR\_newRAT-Core

[R2-2010680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010680.zip) CR on TS 38.331 for LCP restriction of configured grant type 1 MediaTek CR Rel-15 38.331 16.2.0 2273 - A NR\_newRAT-Core

[R2-2009348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009348.zip) Clarification on configuredGrantTimer Nokia, Nokia Shanghai Bell, Ericsson, LG CR Rel-15 38.321 15.10.0 0926 - F NR\_newRAT-Core

[R2-2009792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009792.zip) Clarification on configured grant (re-)initialization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.10.0 0941 - F NR\_newRAT-Core

[R2-2009793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009793.zip) Clarification on configured grant (re-)initialization Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0942 - A NR\_newRAT-Core

Moved from 6.1.3

Other I

[R2-2010165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010165.zip) Clarification of timer value zero interpretation in MAC Ericsson, Samsung CR Rel-15 38.321 15.10.0 0968 - F NR\_newRAT-Core

[R2-2010166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010166.zip) Clarification of timer value zero interpretation in MAC Ericsson, Samsung CR Rel-16 38.321 16.2.1 0969 - A NR\_newRAT-Core

[R2-2010156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010156.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-16 38.321 16.2.1 0964 - F NR\_newRAT-Core

[R2-2010157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010157.zip) Recommended bit rate query handling at MAC Reset Ericsson CR Rel-15 38.321 15.10.0 0965 - F NR\_newRAT-Core

* [AT112-e][003][NR15] MAC II (Samsung)

Treat R2-2008909, R2-2010622, R2-2010623, R2-2010624, R2-2010426, R2-2010318, R2-2009910, R2-2009911, R2-2010418, R2-20010164, R2-2009482

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Bundling Related

[R2-2008909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008909.zip) Fixing a CR implementation error of CR0767 Lenovo, Motorola Mobility, Samsung (Rapporteur) CR Rel-15 38.321 15.10.0 0899 - F NR\_newRAT-Core

[R2-2010622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010622.zip) Incorrectly stopping DRX retransmission timer when bundling is used Ericsson CR Rel-16 38.306 16.2.0 0468 - F NR\_newRAT-Core

[R2-2010623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010623.zip) Incorrectly stopping DRX retransmission timer when bundling is used Ericsson CR Rel-16 38.321 16.2.0 0993 - F NR\_newRAT-Core

[R2-2010624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010624.zip) Incorrectly stopping DRX retransmission timer when bundling is used Ericsson CR Rel-16 38.331 16.2.0 2263 - F NR\_newRAT-Core

[R2-2010426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010426.zip) Correction on DRX with bundle transmission of configured uplink grant ASUSTeK CR Rel-16 38.321 16.2.1 0987 - F TEI16

Moved from 6.16

[R2-2010318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010318.zip) Further discussions on DRX with bundling operation Huawei, HiSilicon discussion Rel-16 TEI16

Moved from 6.16

[R2-2009910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009910.zip) CR on 38.321 for HARQ process handling of retransmission within a bundle-R15 ZTE Corporation, Sanechips CR Rel-15 38.321 15.10.0 0951 - F NR\_newRAT-Core

[R2-2009911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009911.zip) CR on 38.321 for HARQ process handling of retransmission within a bundle-R16 ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0952 - F NR\_newRAT-Core

[R2-2010418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010418.zip) Clarification for bundling transmission ASUSTeK CR Rel-15 38.321 15.10.0 0983 - F NR\_newRAT-Core

[R2-2010164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010164.zip) Consistent use of terminology for bundling in MAC Ericsson, Samsung CR Rel-16 38.321 16.2.1 0967 - F NR\_newRAT-Core

Other II

[R2-2009482](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009482.zip) Clarification on PHR reporting for PUSCH skipping Apple CR Rel-16 38.321 16.2.1 0929 - F NR\_newRAT-Core, TEI16

### 5.3.2 RLC

### 5.3.3 PDCP

* [AT112-e][004][NR15] PDCP (Apple)

Treat R2-2009481, R2-2010559. R2-2010560, R2-2010667, R2-2010668

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[R2-2009481](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009481.zip) NW configuration on PDCP recovery Apple discussion Rel-15 NR\_newRAT-Core

[R2-2010559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010559.zip) PDCP status report Qualcomm Incorporated CR Rel-15 38.323 15.7.0 0058 - F NR\_newRAT-Core

[R2-2010560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010560.zip) PDCP status report Qualcomm Incorporated CR Rel-16 38.323 16.2.0 0059 - A NR\_newRAT-Core

[R2-2010667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010667.zip) Corrections on PDCP functionalities Huawei, HiSilicon CR Rel-15 38.323 15.7.0 0060 - F NR\_newRAT-Core

[R2-2010668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010668.zip) Corrections on PDCP functionalities Huawei, HiSilicon CR Rel-16 38.323 16.2.0 0061 - A NR\_newRAT-Core

### 5.3.4 SDAP

## 5.4 Stage 3 control plane corrections

### 5.4.1 NR RRC

Including all architecures

#### 5.4.1.1 Connection control

Including L1 Parameters, L2 Parameters, Connection establishment and release, Connection reconfiguration (also reconfig with sync, Handover), Connection resume and release with RRC\_INACTIVE state, Security procedures, re-establishment, RRC processing delay requirements etc.

* [AT112-e][005][NR15] RRC Conn Control I (Qualcomm)

Treat R2-2008715, R2-2009183, R2-2009184, R2-2009185, R2-2010563, R2-2010665, R2-2010666, R2-2009355, R2-2009356, R2-2009844, R2-2009845, R2-2010530, R2-2010531, R2-2010557, R2-2010558

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

L1 Parameters

SRS Carrier Switching

[R2-2008715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008715.zip) LS reply on NR SRS carrier switching (R1-2007395; contact: Qualcomm) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

Moved from 5.1

[R2-2009183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009183.zip) Discussion on SRS carrier switching based on RAN1 reply LS (R1-2007395) Qualcomm Incorporated, ZTE Corporation, Sanechips, Ericsson, MediaTek Inc. discussion Rel-15 NR\_newRAT-Core

[R2-2009184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009184.zip) Correction for configuration of SRS Carrier Switching Qualcomm Incorporated, ZTE Corporation, Sanechips, Ericsson, MediaTek Inc. CR Rel-15 38.331 15.11.0 2039 - F NR\_newRAT-Core

[R2-2009185](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009185.zip) Correction for configuration of SRS Carrier Switching Qualcomm Incorporated, ZTE Corporation, Sanechips, Ericsson, MediaTek Inc. CR Rel-16 38.331 16.2.0 2040 - A NR\_newRAT-Core

Other

[R2-2010563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010563.zip) SRS Resource Set upon PUCCH Release Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2245 - F NR\_newRAT-Core

[R2-2010665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010665.zip) Corrections on configuration of first active BWPs Huawei, HiSilicon CR Rel-15 38.331 15.11.0 2269 - F NR\_newRAT-Core

[R2-2010666](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010666.zip) Corrections on configuration of first active BWPs Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2270 - A NR\_newRAT-Core

[R2-2009355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009355.zip) Corrections on the configurations of HARQ-ACK spatial bundling and CBG in 38.331 CATT CR Rel-15 38.331 15.11.0 2058 - F NR\_newRAT-Core

[R2-2009356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009356.zip) Corrections on the configurations of HARQ-ACK spatial bundling and CBG in 38.331 CATT CR Rel-16 38.331 16.2.0 2059 - A NR\_newRAT-Core

[R2-2009844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009844.zip) FH configuration for 1-symbol PUCCH Ericsson CR Rel-15 38.331 15.11.0 2137 - F NR\_newRAT-Core

[R2-2009845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009845.zip) FH configuration for 1-symbol PUCCH Ericsson CR Rel-16 38.331 16.2.0 2138 - A NR\_newRAT-Core, TEI16

[R2-2010530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010530.zip) clarification on p-Max in FR2 rel-15 NTT DOCOMO, INC. CR Rel-15 38.331 15.11.0 2236 - F NR\_newRAT-Core

[R2-2010531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010531.zip) Clarification on p-Max in FR2 NTT DOCOMO, INC. CR Rel-16 38.331 16.2.0 2237 - A NR\_newRAT-Core

Others I

[R2-2010557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010557.zip) Allowing Deactivation of SCells for Overheating Mitigation Qualcomm Incorporated CR Rel-15 38.331 15.11.0 2242 - F NR\_newRAT-Core

[R2-2010558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010558.zip) Allowing Deactivation of SCells for Overheating Mitigation Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2243 - A NR\_newRAT-Core

* [AT112-e][006][NR15] RRC Conn Control II (ZTE)

Treat R2-2009580, R2-2009581, R2-2009579, R2-2009697, R2-2009233, R2-2009234, R2-2009235, R2-2009698, R2-2009699, R2-2010492, R2-2010584, R2-2009236, R2-2009237, R2-2009582, R2-2009583, R2-2009478

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

**L2 parameters**

[R2-2009580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009580.zip) Correction on rach-ConfigDedicated ZTE Corporation, Sanechips CR Rel-15 38.331 15.11.0 2092 - F NR\_newRAT-Core

[R2-2009581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009581.zip) Correction on rach-ConfigDedicated(R16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2093 - A NR\_newRAT-Core

[R2-2009479](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009479.zip) Clarification on the SCell RACH configuration Apple CR Rel-16 38.331 16.2.0 2183 - F NR\_newRAT-Core, TEI16

Moved from 6.16

**Reestablishment**

[R2-2009697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009697.zip) Clarification on RRC Reestablishment procedure Ericsson discussion Rel-15 NR\_newRAT-Core

**ASN.1**

[R2-2009233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009233.zip) Clarify UE behaviour on Need S Need R fields ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

[R2-2009234](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009234.zip) CR to clarify UE behaviour on Need S Need R fields ZTE Corporation, Sanechips CR Rel-15 38.331 15.11.0 2044 - F NR\_newRAT-Core

[R2-2009235](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009235.zip) CR to clarify UE behaviour on Need S Need R fields ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2045 - A NR\_newRAT-Core

SUL terminology

[R2-2009698](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009698.zip) Correction on terminology for when the UE is configured with SUL Ericsson CR Rel-15 38.331 15.11.0 2105 - F NR\_newRAT-Core

[R2-2009699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009699.zip) Correction on terminology for when the UE is configured with SUL Ericsson CR Rel-16 38.331 16.2.0 2106 - F NR\_newRAT-Core

[R2-2010492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010492.zip) Clarification on the terminology ‘serving cell is configured with a supplementary uplink’ Fujitsu discussion Rel-16 NR\_newRAT-Core

Moved from 6.1.1

[R2-2010584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010584.zip) Clarification on the terminology ‘serving cell is configured with a supplementary uplink’ Fujitsu CR Rel-16 38.331 16.2.0 1772 1 F NR\_newRAT-Core R2-2007020

Moved from 6.1.1

Others II

[R2-2009236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009236.zip) CR to clarify smtc field in case of SCell addition ZTE Corporation, Sanechips CR Rel-15 38.331 15.11.0 2046 - F NR\_newRAT-Core

[R2-2009237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009237.zip) CR to clarify smtc field in case of SCell addition ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2047 - A NR\_newRAT-Core

[R2-2009582](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009582.zip) Correction on essential system information ZTE Corporation, Sanechips CR Rel-15 38.331 15.11.0 2094 - F NR\_newRAT-Core

[R2-2009583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009583.zip) Correction on essential system information(R16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2095 - A NR\_newRAT-Core

[R2-2009478](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009478.zip) Clarification on AS configuration during HO Apple CR Rel-16 38.331 16.2.0 2082 - F NR\_newRAT-Core, TEI16

Moved from 6.16

#### 5.4.1.2 RRM and Measurements and Measurement Coordination

Including late drop.

#### 5.4.1.3 System information

* [AT112-e][007][NR15] System Information and Idle mode (ZTE)

Treat R2-2009394, R2-2009398, R2-2010414, R2-2010436, R2-2009808- R2-2009811, R2-2009782 (from AI 5.4.4, see further below)

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

SI mapping info

[R2-2009394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009394.zip) Clarification on SIB mapping to SI message MediaTek Inc.,Huawei, HiSilicon, Ericsson, Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.11.0 2065 - F NR\_newRAT-Core

[R2-2009398](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009398.zip) Clarification on SIB mapping to SI message MediaTek Inc., Huawei, HiSilicon, Ericsson, Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2066 - F NR\_newRAT-Core, NR\_pos-Core

SIB acquisition

[R2-2010414](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010414.zip) Correction on SIB acquisition Google Inc. CR Rel-15 38.331 15.11.0 2217 - F NR\_newRAT-Core

[R2-2010436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010436.zip) Correction on SIB acquisition Google Inc. CR Rel-16 38.331 16.2.0 2223 - F NR\_newRAT-Core

Moved from 6.16

UAC for AC1 in shared NW

[R2-2009808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009808.zip) Correction on uac-AccessCategory1-SelectionAssistanceInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-15 38.331 15.11.0 2129 - F NR\_newRAT-Core

[R2-2009809](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009809.zip) Correction on uac-AccessCategory1-SelectionAssistanceInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-16 38.331 16.2.0 2130 - F NR\_newRAT-Core

[R2-2009810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009810.zip) Correction on uac-AC1-SelectAssistInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-15 36.331 15.11.0 4487 - F NR\_newRAT-Core

[R2-2009811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009811.zip) Correction on uac-AC1-SelectAssistInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-16 36.331 16.2.1 4488 - F NR\_newRAT-Core, NB\_IOTenh3-Core

Withdrawn

R2-2010483 Correction on uac-AccessCategory1-SelectionAssistanceInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-15 38.331 15.11.0 2227 - F NR\_newRAT-Core Withdrawn

R2-2010484 Correction on uac-AccessCategory1-SelectionAssistanceInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-16 38.331 16.2.0 2228 - F NR\_newRAT-Core Withdrawn

R2-2010485 Correction on uac-AC1-SelectAssistInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-15 36.331 15.11.0 4513 - F NR\_newRAT-Core Withdrawn

R2-2010486 Correction on uac-AC1-SelectAssistInfo ZTE corporation, Sanechips, Nokia, Ericsson, CMCC, ChinaTelecom, CATT CR Rel-16 36.331 16.2.1 4514 - F NR\_newRAT-Core, NB\_IOTenh3-Core Withdrawn

#### 5.4.1.4 Inter-Node RRC messages

* [AT112-e][008][NR15] inter-node RRC (Huawei)

Treat R2-2008727, R2-2010542, R2-2009242, R2-2009243, R2-2010357, R2-2009159, R2-2009160, R2-2009161, R2-2010359, R2-2010360,

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

**Band selection**

[R2-2008727](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008727.zip) Band selection and indication on single connectivity (R3-205765; contact: ZTE) RAN3 LS in Rel-16 NR\_newRAT-Core To:RAN2

Moved from 5.1

[R2-2010542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010542.zip) Band selection and indication on single connectivity Ericsson discussion NR\_newRAT-Core

[R2-2009242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009242.zip) Discussion RAN3 LS on band selection and indication ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_newRAT-Core

Moved from 6.12

[R2-2009243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009243.zip) Reply LS on band selection and indication ZTE Corporation, Sanechips LS out Rel-16 NR\_newRAT-Core To:RAN3

Moved from 6.12

[R2-2010357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010357.zip) Disucssion on overlapping band handling Huawei, HiSilicon discussion Rel-16 NR\_newRAT-Core

Moved from 6.16

Other

[R2-2009159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009159.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

[R2-2009160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009160.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.11.0 2035 - F NR\_newRAT-Core

[R2-2009161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009161.zip) Clarification to usage of MN and SN configuration restrictions Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2036 - A NR\_newRAT-Core

[R2-2010359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010359.zip) Clarification on scg-CellGroupConfigEUTRA Huawei, HiSilicon CR Rel-15 38.331 15.11.0 2210 - F NR\_newRAT-Core

[R2-2010360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010360.zip) Clarification on scg-CellGroupConfigEUTRA Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2211 - A NR\_newRAT-Core

[R2-2010976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010976.zip) Intra-band EN-DC deployment issue Nokia, Nokia Shanghai Bell discussion NR\_newRAT-Core

=> withdrawn

#### 5.4.1.5 Other

* [AT112-e][009][NR15] RRC Misc (Ericsson)

Treat R2-2009840, R2-2009842, R2-2009843, R2-2009074 - R2-2009077, R2-2009477

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Misc

[R2-2009840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009840.zip) Miscellaneous non-controversial corrections Set VIII Ericsson CR Rel-15 38.331 15.11.0 2133 - F NR\_newRAT-Core

ASN.1 to release

[R2-2009842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009842.zip) Correction to release of list elements using toReleaseList Ericsson CR Rel-15 38.331 15.11.0 2135 - F NR\_newRAT-Core

[R2-2009843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009843.zip) Correction to release of list elements using toReleaseList Ericsson CR Rel-16 38.331 16.2.0 2136 - A NR\_newRAT-Core, TEI16

UAI

[R2-2009074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009074.zip) Correction on UAI during handover vivo, Ericsson, Xiaomi, Intel Corporation CR Rel-16 38.331 16.2.0 2029 - F NR\_newRAT-Core, 5G\_V2X\_NRSL-Core

Moved from 6.1.1

[R2-2009075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009075.zip) Correction on UAI during handover vivo, Ericsson, Xiaomi, Intel Corporation CR Rel-15 38.331 15.11.0 2030 - F NR\_newRAT-Core

Moved from 6.1.1

[R2-2009076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009076.zip) Correction on UAI during handover vivo, Ericsson, Xiaomi, Intel Corporation CR Rel-16 36.331 16.2.1 4454 - F LTE\_eV2X-Core, NR\_newRAT-Core

Moved from 6.1.1

[R2-2009077](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009077.zip) Correction on UAI during handover vivo, Ericsson, Xiaomi, Intel Corporation CR Rel-15 36.331 15.11.0 4455 - F NR\_newRAT-Core

Moved from 6.1.1

If supported

[R2-2009477](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009477.zip) Clarification on optional feature without UE AS capability Apple CR Rel-16 38.331 16.2.0 2081 - F NR\_newRAT-Core, TEI16

Moved from 6.16

Withdrawn

R2-2009078 Correction on prohibit timer upon MR-DC release vivo CR Rel-16 38.331 16.2.0 2031 - F NR\_newRAT-Core Withdrawn

### 5.4.2 LTE changes related to NR

* [AT112-e][010][NR15] LTE changes (Nokia)

Treat , R2-2008823, R2-2008824, R2-2009946, R2-2010600, R2-2010601

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

SIB19+ extension

[R2-2009950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009950.zip) Open issues on SIB extension correction Ericsson discussion Rel-15 NR\_newRAT-Core

DISCUSSION Mon NOV 2

P1

- Samsung believes that the ETWS/CMAS issue was in principle there from earlier and the consequence is that the affected SIBs cannot be acquired in one modification period, which is an acceptable consequence.

- Huawei think this was agreed at previous meeting and we don’t need further change to make it work.

- Nokia refers to previous discussions and agrees that the side effect is just a delay.

- Chair: There is no support to change anything for this.

* P1 Not Agreed

P2

- TMO US think there will be a mix of legacy and new UEs and think it is important that we add new SIBs in both branches. Lenovo agrees with TMO US, and think there are operators who doesn’t have any of the problematic UEs.

- Nokia think we should not discuss this and think this was discussed already and is already covered in the interop statement.

- Huawei think that a new release anyway means that we impact UEs, and either way would be ok.

- Samsung don’t see any backwards compatibility issue with P2.

- Chair: We will attempt to make a real decision when we have a SIB to add.

* P2 no agreement for now.

256QAM

[R2-2008823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008823.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.9.0 1787 - F NR\_newRAT-Core

[R2-2008824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008824.zip) Clarification to usage of ul-256QAM-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.2.0 1788 - A NR\_newRAT-Core

Cell Reselection

[R2-2009946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009946.zip) Clarification for the final check on cell selection criterion Ericsson, Qualcomm discussion Rel-15 NR\_newRAT-Core

SN Release

[R2-2010600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010600.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-15 36.331 15.11.0 4523 - F NR\_newRAT-Core

[R2-2010601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010601.zip) Correction on p-MaxEUTRA upon SN release ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4524 - A NR\_newRAT-Core

### 5.4.3 UE capabilities and Capability Coordination

Including Late Drop.

New Input

[R2-2011044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2011044.zip) Clarification on BWCS for inter-ENDC BC with intra-ENDC band combination Bell Mobility, Telus, Nokia, Nokia Shanghai Bell

* [AT112-e][011][NR15] UE caps I (Ericsson)

Treat R2-2010512, R2-2010513, R2-2010238, R2-2009630, R2-2010567, R2-2010568, R2-2010539, R2-2010538, R2-2010517 - R2-2010520, R2-2010084

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Band Combination

[R2-2010238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010238.zip) Discussion on band for redirection and measurement configuration Huawei, HiSilicon, Ericsson discussion Rel-15 NR\_newRAT-Core

[011] DISCUSSION

- [011] Intermediate, Rapporteur: Continue the discussion on whether the network can configure the band that included in supportedBandListNR (no matter if such band is included in the supportedBandCombinationList of the RF-Parameters and/or RF-ParametersMRDC) as a redirection target band

- [011] Intermediate, Rapporteur: Agree that The network can configure the band that included in *supportedBandListNR* (no matter if such band is included in the *supportedBandCombinationList* of the *RF-Parameters* and/or *RF-ParametersMRDC*) as a measurement object.

* [011] The network can configure the band that included in *supportedBandListNR* (no matter if such band is included in the *supportedBandCombinationList* of the *RF-Parameters* and/or *RF-ParametersMRDC*) as a measurement object.

[R2-2010512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010512.zip) Clarified meaning of band combinations Ericsson, Huawei, HiSilicon CR Rel-15 38.306 15.11.0 0450 - F NR\_newRAT-Core

[R2-2010513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010513.zip) Clarified meaning of band combinations Ericsson, Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0451 - A NR\_newRAT-Core

[R2-2009630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009630.zip) Further Consideration on the non-CA BC Capability Reporting ZTE Corporation, Sanechips discussion Rel-15 NR\_newRAT-Core

* [011] Noted

[R2-2010567](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010567.zip) CR on the non-CA BC Capability Reporting ZTE Corporation, Sanechips CR Rel-15 38.331 15.11.0 2248 - F NR\_newRAT-Core

[R2-2010568](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010568.zip) CR on the non-CA BC Capability Reporting ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2249 - A NR\_newRAT-Core

* [011] Both not pursued

Feature Set

[R2-2010539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010539.zip) Definition of fallback per CC feature set Ericsson CR Rel-15 38.306 15.11.0 0457 - F NR\_newRAT-Core

- [011] Intermediate, Rapporteur: To continue discussing: whether there is any parameter in feature set per CC that may be unclear regarding the definition of fallback of feature set per CC (for both Rel-15 and Rel-16); how to capture any identified parameters into the definition of fallback of feature set per CC

[R2-2010538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010538.zip) Definition of fallback per CC feature set Ericsson CR Rel-16 38.306 16.2.0 0456 - A NR\_newRAT-Core

[R2-2010517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010517.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell CR Rel-15 38.306 15.11.0 0452 - F NR\_newRAT-Core

- [011] Intermediate, Rapporteur: remove the sentences that contradict 38.331 concerning feature sets per CC

* [011] Revised

[R2-2010518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010518.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell CR Rel-16 38.306 16.2.0 0453 - A NR\_newRAT-Core

* [011] Revised

[R2-2010519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010519.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell CR Rel-15 38.331 15.11.0 2233 - F NR\_newRAT-Core

[R2-2010520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010520.zip) Removing contradiction on number of FSpUCC and FSpDCC Ericsson, Nokia, Nokia Shanghai-Bell CR Rel-16 38.331 16.2.0 2234 - A NR\_newRAT-Core

* [011] Both not pursued

Inter-node

[R2-2010084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010084.zip) Internode coordination for superset BCs reported by UE Samsung Telecommunications discussion Rel-15 NR\_newRAT-Core

* [011] Noted
* [AT112-e][012][NR15] UE caps II (ZTE)

Treat R2-2008710, R2-2009238, R2-2009239, R2-2009162, R2-2009163, R2-2009516, R2-2009517, R2-2010537, R2-2010536, R2-2010541, R2-2010540, R2-2009944

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

L1 Capabilities

[R2-2008710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008710.zip) LS on Interpretation of UE Features in Case of Cross-Carrier Operation (R1-2007334; contact: ZTE) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

[R2-2009238](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009238.zip) CR to clarify UE capability in case of cross-carrier operation ZTE Corporation, Sanechips, Ericsson CR Rel-15 38.306 15.11.0 0418 - F NR\_newRAT-Core

[R2-2009239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009239.zip) CR to clarify UE capability in case of cross-carrier operation ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.306 16.2.0 0419 - A NR\_newRAT-Core

[R2-2009162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009162.zip) Correction to BWP capabiltiy descriptions Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.11.0 0416 - F NR\_newRAT-Core

[R2-2009163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009163.zip) Correction to BWP capabiltiy descriptions Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.2.0 0417 - A NR\_newRAT-Core

[R2-2009516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009516.zip) Correction of the description of ue-SpecificUL-DL-Assignment Apple CR Rel-15 38.306 15.11.0 0430 - F NR\_newRAT-Core

[R2-2009517](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009517.zip) Correction of the description of ue-SpecificUL-DL-Assignment Apple CR Rel-16 38.306 16.2.0 0431 - A NR\_newRAT-Core

[R2-2010537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010537.zip) Correction to the use of simultaneous CSI-RS resources Ericsson CR Rel-15 38.306 15.11.0 0455 - F NR\_newRAT-Core

[R2-2010536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010536.zip) Correction to the use of simultaneous CSI-RS resources Ericsson CR Rel-16 38.306 16.2.0 0454 - A NR\_newRAT-Core

[R2-2010541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010541.zip) Correction to pdcch-MonitoringSingleOccasion Ericsson CR Rel-15 38.306 15.11.0 0459 - F NR\_newRAT-Core

[R2-2010540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010540.zip) Correction to pdcch-MonitoringSingleOccasion Ericsson CR Rel-16 38.306 16.2.0 0458 - A NR\_newRAT-Core

[R2-2009944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009944.zip) UE capability and cross-slot scheduling for Paging Ericsson discussion Rel-15 NR\_newRAT-Core

* [AT112-e][013][NR15] UE caps III (Huawei)

Treat R2-2009480, R2-2008734, R2-2008770, R2-2008771, R2-2010241, R2-2010242, R2-2009392, R2-2009393, R2-2010239, R2-2010240, R2-2010545, R2-2010546, R2-2010561, R2-2010562

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

L2 capabilities

[R2-2009480](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009480.zip) Clarification on the capability of supportedNumberTAG Apple discussion Rel-15 NR\_newRAT-Core, TEI16

- [013] Rapporteur: 10 companies joined the discussion. 5 companies support the change, 4 companies think the change is NBC and 3 companies want more time to check. There is no clear majority on which direction to go and seems companies need more time to check inter-operability. It is then suggested to postpone the CR and allow companies to check further.

* [013] Postponed

DC related

NE-DC RAN4 features

[R2-2008734](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008734.zip) Reply LS on Clarification on RAN4 features of NE-DC (R4-2011688; contact: Samsung) RAN4 LS in Rel-15 NR\_newRAT-Core To:RAN2

Moved from 5.1

* [013] Noted

[R2-2010241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010241.zip) Clarification on NE-DC for bandwidth combination set Huawei, HiSilicon, Samsung CR Rel-15 38.306 15.11.0 0440 - F NR\_newRAT-Core

- [013] Intermediate, Rapporteur: 9 companies joined the discussion. 2 companies supported to have changes on syncIntraBandENDC, intraBandENDC-Support and UL-TimingAlignmentEUTRA-NR and 5 companies assume the context of the LS from RAN4 is for SupportedBandwidthCombinationSet and better to get confirmation with RAN4 before having the change. 2 companies are fine with the intention but also fine to wait for RAN4. As no consensus, it is suggested not to have this change at this RAN2 meeting, and companies can check RAN4 status further. All companies agree with the other changes in [3][4][5][6] and also agree to have the changes since Rel-15. As CRs in [5][6] did not include the above controversial part, it is therefore proposed to use CRs in [5][6] as the baseline for further checking the changes.

* [013] revised

[R2-2010242](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010242.zip) Clarification on NE-DC for bandwidth combination set Huawei, HiSilicon, Samsung CR Rel-16 38.306 16.2.0 0441 - A NR\_newRAT-Core

* [013] revised

[R2-2008770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008770.zip) Correction for RAN4 features of NE-DC OPPO, Qualcomm Incorporated CR Rel-15 38.306 15.11.0 0411 - F NR\_newRAT-Core

[R2-2008771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008771.zip) Correction for RAN4 features of NE-DC OPPO, Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0412 - A NR\_newRAT-Core

* [013] Not Pursued (contents partially agreed in CRs above).

NR-DC

[R2-2009392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009392.zip) Corrections on PDCP duplication capability for NR-DC Huawei, HiSilicon CR Rel-15 38.331 15.11.0 2063 - F NR\_newRAT-Core

- [013] Intermediate, Rapporteur: 11 companies joined the discussion and all agree with the principle of the CRs, and all agree to change from Rel-15.

* [013] revised (if needed)

[R2-2009393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009393.zip) Corrections on PDCP duplication capability for NR-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2064 - A NR\_newRAT-Core

* [013] revised (if needed)

Handover

[R2-2010239](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010239.zip) Clarification on the inter-frequency handover capability Huawei, HiSilicon, Ericsson CR Rel-15 38.306 15.11.0 0438 - F NR\_newRAT-Core

[R2-2010240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010240.zip) Clarification on the inter-frequency handover capability Huawei, HiSilicon, Ericsson CR Rel-16 38.306 16.2.0 0439 - F NR\_newRAT-Core

* **[013] For online Come-Back.**

Differentiation xDD FRx

[R2-2010545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010545.zip) Clarification on UE capabilities with FDD/TDD differentiation Ericsson, ZTE Corporation, Sanechips CR Rel-15 38.306 15.11.0 0460 - F NR\_newRAT-Core

- [013] Intermediate, Rapporteur: 11 companies joined the discussion and all agree the change in principle. In addition all companies agree this change should be started from Rel-15.

* [013] revised (if needed)

[R2-2010546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010546.zip) Clarification on UE capabilities with FDD/TDD differentiation Ericsson, ZTE Corporation, Sanechips CR Rel-16 38.306 16.2.0 0461 - F NR\_newRAT-Core

* [013] revised (if needed)

[R2-2010561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010561.zip) slotAgrregationULConfigGrant capabilities enhancement Qualcomm Incorporated CR Rel-15 38.306 15.11.0 0466 - F NR\_newRAT-Core

[R2-2010562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010562.zip) slotAgrregationULConfigGrant capabilities enhancement Qualcomm Incorporated CR Rel-15 38.331 15.11.0 2244 - F NR\_newRAT-Core

DISCUSSION On-Line

- Nokia think this is non backwards compatible, and this is problematic. It is too late. Huawei agrees with Nokia, and think some of these parameters are by R1 and it is not suitable that we change. Mediatek agrees. Samsung agrees as well, and think if we do this for Rel16 we need a bit more time. Ericsson also agrees that it is late and current CR is NBC.

- Apple also think this is problematic but have some sympathy and wonder if there is a way to make this backwards compatible.

- QC agrees some Cap changes need to be by R1, but think we can send an LS, and think we can attempt a R16 CR. LG are ok for R16, but wonder if we do this for R16 what happens then with legacy UE caps.

- Chair: there seems to be significant resistance, and only two companies that could consider attempting some support in R16. Not sufficient support.

- QC wonder then if the companies that do not want this whether they are prepared to do this interop testing.

* No agreement, both not pursued

### 5.4.4 Idle inactive mode procedures

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions, out of coverage, etc) are covered under RRC agenda items (5.4.1.x)

[R2-2009782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009782.zip) Clarifications for Inter-RAT Cell Reselection and Mobility State MediaTek Inc. discussion

Treated by email together with System Information, see above.

## 5.5 Positioning corrections

Corrections to both the stage 2 and stage 3 aspects related to positioning. Stage 2 CRs should be discussed with the specification rapporteur before submission.

Documents in this agenda item will be handled in a break out session.

[R2-2010138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010138.zip) Corrections to E-CID positioning Nokia, Nokia Shanghai Bell CR Rel-15 38.305 15.6.0 0042 - F NR\_newRAT-Core

[R2-2010274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010274.zip) Correction on OTDOA Positioning support in R15 Huawei, HiSilicon CR Rel-16 38.305 16.2.0 0047 - F NR\_newRAT-Core

[R2-2010275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010275.zip) Correction on OTDOA Positioning support in R16 Huawei, HiSilicon CR Rel-16 38.305 16.2.0 0048 - A NR\_pos-Core

[R2-2010569](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010569.zip) Correction of A-GNSS Periodical retrival of Assistance Data Ericsson CR Rel-15 37.355 15.0.0 0277 - F NR\_newRAT-Core

[R2-2010570](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010570.zip) Correction of A-GNSS Periodical retrival of Assistance Data Ericsson CR Rel-16 37.355 16.2.0 0278 - F NR\_newRAT-Core

[R2-2010571](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010571.zip) Correction of hanging ASN.1 code after END Ericsson CR Rel-15 37.355 15.0.0 0279 - F NR\_newRAT-Core

[R2-2010572](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010572.zip) Correction of hanging ASN.1 code after END Ericsson CR Rel-16 37.355 16.2.0 0280 - F NR\_newRAT-Core

# 6 Rel-16 NR Work Items

Corrections that resolve issues for functionality developed for R16 WIs. While high maintenance intensity is expected, Rel-16 corrections are treated separately per WI.

## 6.1 Rel-16 General

### 6.1.1 General RRC corrections

Corrections that do not fit well elsewhere in the agenda, e.g. cross-WI. Including [Post111-e][901][NR16] Extension scenarios for ToAddMod lists (Mediatek). Including [Post111-e][927][NR16] NR Parameter Names Consolidation (Ericsson)

* [AT112-e][014][NR16] RRC general (Ericsson)

Scope: Treat RRC R16 general sub-topics.

Intended outcome:

Deadline:

Rapporteur R16 RRC CR

[R2-2009841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009841.zip) Miscellaneous non-controversial corrections Set VIII Ericsson CR Rel-16 38.331 16.2.0 2134 - F NR\_newRAT-Core, TEI16

- Ericsson indicate that there were a cpl of offline comments

- Chair: no on-line comments, treat in [014]

NR parameter names

[Post111-e][927][NR16] NR Parameter Names Consolidation (Ericsson)

[R2-2009838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009838.zip) NR RAN1 Rel-16 ASN.1 consolidated parameter list Ericsson discussion Rel-16 TEI16

=> revised

[R2-2010685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010685.zip) NR RAN1 Rel-16 ASN.1 consolidated parameter list Ericsson discussion Rel-16 TEI16

DISCUSSION Mon Nov 2

- Ericsson explains that the list is agreeable but there is a configuration parameter missing, in TEI but it is added by R2-2008825

- [014] Chair: Was initially decided to Revise to include the agreed parameter, when agreed, but it was later agreed to just send the LS and ignore the missing parameter.

* [014] Endorsed, for inclusion in LS

[R2-2009839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009839.zip) Draft Reply LS on updated Rel-16 LTE and NR parameter lists Ericsson LS out Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, NR\_eMIMO-Core, LTE\_DL\_MIMO\_EE-Core, NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_unlic-Core, NR\_2step\_RACH-Core, NR\_IAB-Core, NR\_L1enh\_URLLC-Core, NR\_UE\_pow\_sav-Core, LTE\_terr\_bcast-Core, NR\_pos-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core To:RAN1 Cc:RAN3

DISCUSSION On-LIne

- Huawei think the R2 naming conventions may not apply completely to R1, and think they should mainly just be explained.

- Ericsson think that the information in the LS is consistent with R1 discussion.

- Nokia think the discussion in R1 is whether they use the full name or not

- Huawei think the text can be made clearer.

- vivo think we can send LS without recommendation.

- Chair: Can massage the text to make the recommendation even more clear.

DISCUSSION On-Line Nov 4

- Huawei propose to ask about the configuration IE, as this is in brackets in R1 TS (R1-2001478).

- Nokia think this parameter is indeed in the R1 parameters list.

- Ericsson think that in the second parameter list from R1 this parameter was included (R2-2006361).

- Chair wonder if the recommendation is now ok, Huawei sent a proposed update.

- Nokia wonder if we then shall tell them how we name the fields. Huawei comment that this is their proposal. Ericsson think we should make it as simple as possible for R1.

- Chair think it would be good to agree the LS and send it this week (with or without the missing parameter), pl check progress in the parallel session.

* Continue by email [014], revised

[R2-2011031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009839.zip) Draft Reply LS on updated Rel-16 LTE and NR parameter lists Ericsson LS out Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, NR\_eMIMO-Core, LTE\_DL\_MIMO\_EE-Core, NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_unlic-Core, NR\_2step\_RACH-Core, NR\_IAB-Core, NR\_L1enh\_URLLC-Core, NR\_UE\_pow\_sav-Core, LTE\_terr\_bcast-Core, NR\_pos-Core, 5G\_V2X\_NRSL-Core, NR\_IIOT-Core To:RAN1 Cc:RAN3

* [014] The LS out is Approved, with the attachment of above endorsed *NR RAN1 Rel-16 ASN.1 consolidated parameter list.* Final LS version in R2-2011037

Extension of ToAddMod lists

* [AT112-e][045][NR16] Extension of ToAddMod lists (Mediatek)

Scope: Continue discussion on P10, P11, converge to agreements if possible. Review and agree CR.

Intended outcome: Report, agreed CR (if possible)

Deadline: EOM, intermediate deadlines by the Rapporteur.

[R2-2009976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009976.zip) Summary of email discussion [Post111-e][901] Extension scenarios for ToAddMod lists (MediaTek) MediaTek Inc. discussion Rel-16 NR\_newRAT-Core

DISCUSSION

- Huawei wonder if we will rename current fields to align? MTK think yes, and the change is not big (it is in the CR). Nokia think we should check so this doesn’t introduce issues. Could even check until next meeting.

* P1, P2, P3, P4, P6 are agreed
* P8 P9 are agreed

Chair: a separate email discussion to continue on P10 and P11

[R2-2009982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009982.zip) ASN.1 guidelines for extension of ToAddMod/ToRelease lists, and related updates of existing field names MediaTek Inc. CR Rel-16 38.331 16.2.0 2150 - F TEI16

[R2-2009983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009983.zip) ToRelease list extensions: unresolved issue from [Post111-e][901] Extension scenarios for ToAddMod lists (MediaTek) MediaTek Inc. discussion Rel-16 TEI16

R16 Reest or Resume with R15 gNB

[R2-2009416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009416.zip) Miscellaneous corrections to 38.331 on UE configuration release ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2073 - F TEI16, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core

=> revised

[R2-20](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009416.zip)10998 Miscellaneous corrections to 38.331 on UE configuration release ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2073 1 F TEI16, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core

On-line first

DISCUSSION

- Nokia think some part can be merged to rapporteur CR and several things are covered in the general section.

- Apple has some sympathy but are thinking that we should have thre release behavours in a single section. Think that SON MDT maybe should continue.

- Ericsson think the first change and all changes with on-demand are wrong, and T316 probably can be considered in general, and T350 is already stopped so no need to stop at resume.

- Huawei also think 5353 changes are not needed, and don’t understand the coversheet explanation, do not understand why there would eb a mismatch. A network will do full configuration if it doesn’t understand the UE config.

- MTK agrees with Ericsson and Huawei. There is no need for this CR.

- vivo also think 5353 changes doesn’t resolve issues, and agrees that ondemand changes are wrong.

- QC also agree that full config is the main method, and UE autonomous release is only for configuration that is not handled by that.

* No consensus, not agreed
* [AT112-e][039][NR16] SI acquisition (Ericsson)

Scope: Treat remaining aspects of papers under 6.1.1 “SI Acquisition”. Identify agreeable parts and agree them. For agreed parts, agree revised CRs.

Intended outcome: Report, agreed CRs.

Deadline: Agreements ready at EOM, Rapporteur may set intermediate deadlines

SI acquisition

[R2-2010272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010272.zip) Correction on acquisition of MIB and SIB1 Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.2.0 2198 - F NR\_pos-Core

[R2-2009101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009101.zip) Corrections to SI acquisition in RRC\_CONNECTED Samsung Electronics Co., Ltd CR Rel-16 38.331 16.2.0 2033 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

DISCUSSION on the two CRs above, Mon NOV 2.

- Ericsson believe that if the first doc is agreed then the second doc is not needed. MTK agrees but think the text need to be changed also in the second CR, remove the word “stored”. Intel agrees.

- LG think a UE monitors notifications, and think a UE will know when SIB1 is modified and there is no issue to resolve (SS CR)

- QC think it is strange to say from current modification period, but for pos modification period does not apply so UE may need to acquire outside Mod period, but for legacy no need.

- Nokia wonder why a UE would need to acquire SIB1 again and again

- Samsung think there is no intention to impact legacy, the affected text is only executed for the R16 Si acq in connected. QC think we should be careful, and think the CR indeed change legacy behaviour. Samsung think there is some confusion there is no side effect.

- CATT think the refe to modification period in SS CR is not correct, and think it is up to UE implement when to get SIB1.

- Samsung think that 10272 says that the UE then need to always acquire SIB1. Huawei think that the Bcast status may change during modification period, and think that SIB1 would be acquired based on need from upper layer. Ericsson agrees. Samsung think we should specify the condition for acquiring SIB1. Huawei think the SIB1 would just be additionally acquired when application SIB is required.

- Chair: There seems to be support for changes in 10272.

* When UE trigger SIB acquisition in Connected and SIB Bcast status is nonbroadcast, then the UE shall acquire SIB1 without paying respect to modification period (same as Idle mode R15 procedure).

[R2-2009945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009945.zip) Clarifications for the common search space on the active BWP Ericsson CR Rel-16 38.331 16.2.0 2146 - F NR\_newRAT-Core

Moved from 6.1.3

[R2-2009102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009102.zip) Corrections to SI acquisition in IDLE\_INACTIVE Samsung Electronics Co., Ltd CR Rel-16 38.331 16.2.0 2034 - F 5G\_V2X\_NRSL-Core, NR\_pos-Core

Withdrawn

R2-2010493 Clarification on the terminology ‘serving cell is configured with a supplementary uplink’ Fujitsu CR Rel-16 38.331 16.2.0 2229 - F NR\_newRAT-Core Withdrawn

### 6.1.2 NR Feature Lists and UE capabilities

Includes NR UE capability updates related to R1 and R4 feature lists. Including [Post111-e][900][NR16] UE capabilites (Intel)

Plan at R2 112-e for R16 NR UE caps

1. NR R16 UE capability CRs will be by two mega CRs 38331 38306, including all WIs. The outcome of [Post111-e][900][NR16] UE capabilities (Intel) is to be the baseline (expected endorsed at beginning of meeting).

2 Expect that R1 and R4 updated feature lists are available Friday Nov 6. By default, FFS marked items will not be taken into account for signalling implementation (except for Mandatory/Optional FFS).

3 The ***UE capabilities main email discussion / AI 6.1.2*** will take into account R1 and R4 feature lists updated at current meeting, except for WIs/AIs for which this is done in separate long discussions / treatment (see below).

4 ***Separate Short Discussions/Treatment*** for specific issues and input tdocs, will not take into account further updated R1 R4 feature list: Endorsed Draft CRs ready Friday Nov 6.

5 ***Separate Long Discussions/Treatment***, shall take into account further updated R1 R4 feature list: Endorsed Draft CRs ready Nov 13.

6 Separate endorsed Draft CRs 38331 38306 are then merged into the mega CRs, in the UE capabilities Main discussion. The merged result is reviewed, but it is not intended to repeat already done discussions.

7 UE capabilities for V2X, NR Mobility Enh, NR positioning and DCCA are separate long discussions. (there are short discussions for e.g. IAB, NR-U)

8. The ***UE capabilities main email discussion*** is expected to continue after the meeting, to produce final merged and checked mega CRs.

Note RIL handling may be used or not in some phase(s) at the discretion of the Rapporteur.

- Online Main session: Plan was presented Nov 3, No questions or comments.

* [AT112-e][015][NR16] UE cap Main (Intel)

Scope: a) Treat tdocs on specific issues as assigned. b) Take into account updated feature lists and UE caps LSes from R1 and R4. c) Merge endorsed output from other R16 UE caps (306 331) email discussions. d) Produce final mega CRs 38306 38331 for RP.

High level plan (detailed deadlines by rapporteur as needed):

Week 1: Resolve specific issues and agree / endorse 331 306 specific changes based on assigned tdocs.

Week 2: Review of updated R1 R4 feature lists and other LS in if any. Take into account outcome of separate short discussions. Review and Agree on corresponding updates to 306 331 based on rapporteur proposal. Rapporteur proposal expected Tuesday Nov 10.

Week 3 (the week after the meeting): Merge of Draft CRs from other long UE caps discussions. Final checking of the mega CRs.

Intended outcome: Agreed CRs 306 331

LS in

[R2-2008708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008708.zip) LS on updated Rel-16 RAN1 UE features lists for NR (R1-2007327; contact: NTT DoCoMo, AT&T) RAN1 LS in Rel-16 NR\_2step\_RACH-Core, NR\_unlic-Core, NR\_IAB-Core, 5G\_V2X\_NRSL-Core, NR\_L1enh\_URLLC-Core, NR\_IIOT-Core, NR\_eMIMO-Core, NR\_UE\_pow\_sav-Core, NR\_pos-Core, NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core, TEI16, NR\_CLI\_RIM-Core To:RAN2, RAN4

Chair comment: this LS is already taken into account in the CRs below.

* Noted (already taken into acct)

[R2-2008738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008738.zip) LS on FR1 intra-band UL CA UE capability (R4-2011724; contact: Huawei) RAN4 LS in Rel-16 NR\_RF\_FR1-Core To:RAN2

Moved from 6.15

* Noted (already taken into acct)

[R2-2008739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008739.zip) LS on UE capability for FR2 inter-band CA (R4-2011741; contact: Nokia) RAN4 LS in Rel-16 NR\_RF\_FR2\_req\_enh To:RAN2

Moved from 6.15

* Noted (already taken into acct)

UE Caps Mega CRs

Outcome of [Post111-e][900][NR16] UE capabilites (Intel)

[R2-2009278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009278.zip) Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2 corrections Intel Corporation CR Rel-16 38.306 16.2.0 0422 - B NR\_UE\_pow\_sav-Core, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM-Core, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core Late

* Endorsed as baseline (expect more update this meeting)

[R2-2009279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009279.zip) Release-16 UE capabilities based on RAN1, RAN4 feature lists and RAN2 corrections Intel Corporation CR Rel-16 38.331 16.2.0 2051 - B NR\_UE\_pow\_sav-Core, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM-Core, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core Late

* Endorsed as baseline (expect more update this meeting)

DISCUSSION

- Intel explains that 7-5 DC location report is not impl as there is discussion this meeting.

- For 7-3b R4 has left it to R2 if to add new cap. Intel explains that the requested flexibility was already there and nothing has been added.

- On SINR reporting, Cap for semi-persistent SINR reporting is introduced as functional NBC change (ASN.1 is still BC), this has been accepted by everyone.

**TR for Feature lists**

TR 38.822 or Similar

[R2-2009280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009280.zip) Capturing R1, R2 and R4 feature lists Intel Corporation, ZTE Corporation, Sanechips discussion Rel-16 TEI16

DISCUSSION

- Huawei think it is useful to have a R2 feature list for tracking. Would also be ok to have the feature lists captured in a TR. Huawei think this can be done when feature lists are stable.

- Ericsson also think it is goo to capture feature lists in a TR. Assume as Huawei that this would be a snapshot. Think we can have a new TR for R16.

- Oppo also think a R2 feature list is a good idea that gives better understanding. Oppo think a separate TR for R16 could be helpful, but think we should aim to use this TR for R17 R18 etc.

- Apple has same view as companies above, but think it is better to update current 38.822 TR. Think this can be for Dec.

- Samsung also agree with prev companies, and think using existing TR is easier for the user

- MTK also think we can use the current TR, and also for futre release.

- Lenovo are not convinced for R2 feature list, what would be the additional information? Also, would the TR be maintained?

- Intel assumes the TR is a snapshot so we need to have stability, so no maintenance.

- QC think R2 feature list is good and think the existing TR can be used, and we need to easily distinguish R16 and R15 features.

- ZTE also refer to use the current TR, can have a new section for R16.

- Nokia also think we need this, e.g. FGI numbers etc was a great value for R15. Understand that this is a one-shot thing.

- LG wonder if there is anyone who want to update the R15 features in the TR? Nokia think we will not update the Rel-15 part, and this could be a lot of work.

- Huawei think there are preconditions for R16 features based on R15 features so a single TR is more easy to understand.

- MCC indicate that we don’t use internal TRs for multiple releases normally

- vivo think we don’t want to maintain the TR so there are arguments for keeping this internal

- Intel assumes this work can be done for Feb/March

* RAN2 Agree to capture Rel-16 RAN WG feature list in RAN2 TR.
* RAN2 Agree to generate the Rel-16 L2/3 (RAN2 specific) UE capabilities/features list for Rel-16 since this is currently not available.
* RAN2 assumes that the R16 feature lists are added into 38.822, as there as benefits with having multiple rel information together.
* It is assumed this can be done Feb/March

Chair: Maybe have a between meetings email discussion to create the 1st R2 feature list.

R4 RF FR1

[R2-2009307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009307.zip) Discussion on RAN4 FG 7-3b Intel Corporation discussion Rel-16 NR\_RF\_FR1-Core

DISCUSSION

- Intel indicate that this was already proposed in the email discussion with no response.

- QC support these proposals, but think what R4 said about “default” was strange.

- ZTE also support.

* RAN2 confirmed that with Rel-15 capability signaling, it is possible to indicate the MIMO capability for each UL CC separately and therefore, new Rel-16 signaling is NOT needed
* RAN2 agree not to introduce any specification change for FG 7-3b.
* RAN2 sends an LS to RAN4, text in 9307 seems agreeable.

LS (Intel) Checked and agreed in email discussion [015] (expect agreement 24h after last comment, no particular deadline)

[R2-2011023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2011023.zip) Reply LS on FR1 intra-band UL CA UE capability RAN2 LS out

* [015] The outgoing LS is approved

Miscellaneous

[R2-2009277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009277.zip) Miscellaneous corrections for Rel-16 UE capabilities Intel Corporation CR Rel-16 38.306 16.2.0 0421 - F NR\_unlic-Core, NR\_RF\_FR2\_req\_enh

* Endorsed

[R2-2009663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009663.zip) Corrections to NR UE capabilities and features Lenovo, Motorola Mobility CR Rel-16 38.306 16.2.0 0432 - F NR\_UE\_pow\_sav-Core, NR\_SON\_MDT-Core

Treat by email in Main UE cap discussion.

R2-2010993 Corrections for drx-Adaptation capability Ericsson CR Rel-16 38.306 16.2.0 0612 - F NR\_UE\_pow\_sav-Core

Treat by email in Main UE cap discussion.

[R2-2010050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010050.zip) Correcton for SPS capability Ericsson discussion Rel-16

- Oppo asks for clarification, and think the word “only” should be added.

- Huawei think R16 CR is enough. No ambiguity for R15. Nokia agrees. ZTE agrees as well and think for R15 331 is clear. Ericsson agrees that R15 is clear, but the reader may be confused by the difference between R15 and R16 TS.

* Proposed changed agreed for R16. Merged with Misc Corrections CR.

[R2-2009846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009846.zip) UE capability for configuration of SMTC of target SCG cell Ericsson CR Rel-16 38.306 16.2.0 0436 - F TEI16

[R2-2009847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009847.zip) UE capability for configuration of SMTC of target SCG cell Ericsson CR Rel-16 38.331 16.2.0 2139 - F TEI16

DISCSUSSION

- Intel think that there is a line on the cover page that this is mandatory, so the question is if there is a need for IOT bit.

- QC support to add this.

- MTK think this is not needed, as this is a one shot SI for SN addition, and think it doesn't resolve any interoperability issue. ZTE agrees with MTK, this is just for SI, so we don’t need the UE cap. Huawei and Apple also agrees.

- Ericsson will check again.

- QC wonders if we really not have an IOT issue, if the UE uses the wrong SMTC. MTK think that if the UE can use the information the SN addition will just be faster.

- Considered Not agreeable for now. Chair encourages companies to check.

DISCUSSION Nov 4

- Ericsson came back and want to apply normal practice that a configuration IE is used only if the UE support the functionality, and think this need to be considered.

- LG are ok to have this capability, even though the benefit is not clear, there is no harm.

- Intel are also ok. MTK agrees there is no harm, so it is ok.

- Huawei think we can consider this to be optional without signalled UE Cap. Nokia agrees and point out that this is the case for deprioritization request. The gains of the UE reporting this is not clear.

- QC think the network need to know as there are several places where the network can configure this. Apple would like to check this in detail.

- ZTE anyway think this is just assistance info.

- vivo think there are benefits and the network would use this.

* Continue discussion of this in [015] (preferable converged Friday).

Out-of-order CBG-based re-tx

Decision RP89e: “Introduce a new FG "Out-of-order CBG-based re-transmission(s) with cancelled initial PUSCH transmission". Details are to be finalised by RAN1 and RAN2.”

* [AT112-e][046][NR16] Out-of-order CBG-based re-transmission (Ericsson)

Scope: Treat incoming LS (when it arrives), R2 input (R2-2010049), and make and agree on related Draft CRs.

Intended outcome: Endorsed Draft CRs

Deadline: by the Rapporteur (dep on R1).

[R2-2010049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010049.zip) Out-of-order CBG-based re-transmission(s) with cancelled initial PUSCH transmission Ericsson discussion Rel-16

1st DISCUSSION

- Intel think that once we have info from R1, this will need significant discussion.

- Chair: We wait for R1. Separate email discussion on this topic (Ericsson), to be kicked-off as soon as LS from R1 is available. Rapporteur creates a draft for how to capture in R2 TSs.

### 6.1.3 Other

Other issue that do not fit under any other topic.

* [AT112-e][016][NR16] Dyn UL skip and other (vivo)

Treat R2-2008711, R2-2009824, R2-2009484, R2-2010051, R2-10010317, R2-2009813, R2-2009485, R2-2008862, R2-2009819, R2-2009587, R2-2009486, R2-2010565, R2-2010162

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Dynamic UL Skipping

On-line first then email

LS in

[R2-2008711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008711.zip) LS on PUSCH with UL skipping (R1-2007338; contact: vivo) RAN1 LS in Rel-16 NR\_newRAT-Core, TEI16 To:RAN2

Moved from 5.1

DISCUSSION

- Chair wonder if the assumption that R15 feature doesn’t work is true.

- vivo think that UCI will overlap with grants so there will be overlap. There may be some cases where R15 feature work

- Huawei wonder about CG, as this may also impact the R2 TS. Samsung agrees. Samsung think we could have a unified behaviour for CG and DG in MAC. Think we should wait for R1.

- Apple think separate R16 cap is cleaner and avoid misinterpretation. Also think the CG need to be included, and this is discussed in R1. This also impact the IIOT prioritization.

- LG think Option 2 doesn’t work as there is already some implementation. Skipping with UCI is a new feature.

- Ericsson also support new UE cap. Think that R15 UE cap shall not be indicated by a R16 UE.

- MTK think also the R15 feature can work e.g. with careful scheduling.

- QC think there are more issue then CG

- Nokia wonder about UE cap Merge. Chair think it depend on how late this is as we wait for R1, we might not merge.

- Oppo wonder why we don’t fix this for R15? Chair think the LS clearly say to fix R16. Vivo think that R15 CG is not an issue.

- Intel think the R15 cap should not be dummified and we need a new R16 cap for CG.

* Wait for R1, e.g. on CG (for the MAC CR)
* RAN2 Assumes a new UE cap is used

Discussion

[R2-2009824](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009824.zip) Discussion on new UE capability of dynamic UL skipping in Rel-16 vivo, Nokia, Nokia Shanghai Bell, Xiaomi discussion Rel-16

[R2-2009484](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009484.zip) RAN2 Impact on UL skipping enhancement Apple discussion Rel-16 TEI16

Moved from 6.16

[R2-2010051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010051.zip) PUSCH with UL skipping Ericsson discussion Rel-16

[R2-2010317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010317.zip) Discussions on the remaining issues on PUSCH with UL skipping Huawei, HiSilicon discussion Rel-16 TEI16

Moved from 6.16

MAC CR

[R2-2009813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009813.zip) Correction to UL skipping of dynamic UL grant vivo, Nokia, Nokia Shanghai Bell, Xiaomi CR Rel-16 38.321 16.2.1 0945 - F TEI16

[R2-2009485](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009485.zip) MAC CR on UL skipping enhancement Apple CR Rel-16 38.321 16.2.1 0930 - F TEI16

Moved from 6.16

[R2-2008862](file:///D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_112-e\\Docs\\R2-2008862.zip" \o "D:Documents3GPPtsg_ranWG2TSGR2_112-eDocsR2-2008862.zip) Correction on dynamic PUSCH skipping when PUCCH with UCI overlaps with PUSCH CATT CR Rel-16 38.321 16.2.1 0896 - F NR\_IIOT-Core

Moved from 6.5.3

UE Capability

[R2-2009819](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009819.zip) Correction to skipUplinkTxDynamic vivo CR Rel-16 38.306 16.2.0 0435 - F TEI16

Move from 6.1.2

[R2-2009487](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009487.zip) UE capability on UL skipping enhancement Apple CR Rel-16 38.306 16.2.0 0429 - F TEI16

Moved from 6.16

[R2-2009486](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009486.zip) RRC CR on UL skipping enhancement Apple CR Rel-16 38.331 16.2.0 2083 - F TEI16

Moved from 6.16

Draft LSout

[R2-2010565](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010565.zip) Draft reply LS on PUSCH with UL skipping vivo LS out TEI16 To:RAN1

MAC

[R2-2010162](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010162.zip) Alignment of SR clause Ericsson, Samsung, LG Electronics CR Rel-16 38.321 16.2.1 0732 3 F NR\_unlic-Core, NR\_eMIMO-Core, NR\_IAB\_enh R2-2007713

## 6.2 Integrated Access and Backhaul

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: RP-200840; SR: RP-201234, R1, R2, R3 core parts are 100% complete).

Limit: 5 email threads

### 6.2.1 General and Stage-2 Corrections

Incoming LS. 38300 36300 37340

* [AT112-e][017][IAB] Stage-2 (Huawei)

Treat tdocs under 6.2.1

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[R2-2011008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2011008.zip) Summary of [AT112-e][017][IAB] Stage-2 Huawei, HiSilicon

* [017] noted
* [017] Agree the intention of adding IABOtherInformation for SRB3 in section 7.5 of TS 37.340, assuming the wording can be updated, if needed in phase 2 discussion.
* [017] Consider R2-2010151 as “Not Agreed”.
* [017] Agree the intention of first change in R2-2010351, i.e. clarify the non-DRB operations for MT different from UE in sec. 9.2.1.3 in TS 38.300, assuming the wording can be updated, if needed in phase 2 discussion.

[R2-2009321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009321.zip) CR to 37.340 on SRB3 description vivo CR Rel-16 37.340 16.3.0 0234 - F NR\_IAB-Core

* [017] Revised

[R2-2010351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010351.zip) Corrections on non DRB operation for IAB-MT Huawei, HiSilicon CR Rel-16 38.300 16.3.0 0318 - F NR\_IAB-Core

* [017] Revised

[R2-2010151](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010151.zip) Clarification to BAP routing ID handling Ericsson CR Rel-16 38.300 16.3.0 0313 - F NR\_IAB-Core

* [017] not Agreed

### 6.2.2 BAP Corrections

38340

[R2-2009662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009662.zip) The case of traffic of child nodes of a migrating node Samsung, ZTE, Nokia, Nokia Shanghai Bell discussion

DISCUSSION On-Line

- LG indicate that our previous discussions concluded that nothing need to be changed, not even a note is needed.

- Huawei think the main problem that is addressed is the possible waste of some resources, which is not a serious issue. Also for some packets latency may be improved, but this may be better addressed in the next release.

- QC think R3 deliberatly designed this for R16 and is addressing this in R17. We don’t need to do anything.

- Ericsson think a Note doesn’t help at all, some new functionality is needed to improve the situation.

- vivo think there is no need to discard packets, and think the packets can be transmitted after the interruption, and there is nothing new needed.

- Apple agrees this is an issue, not sure this is in R17 scope.

- Samsung agrees the issue cannot be fully resolved in R16, but think a NOTE is useful to acknowledge the issue, and remove unclarity for implementers.

* Noted, not sufficient support (not even for a note)
* [AT112-e][018][IAB] BAP (Samsung)

Treat tdocs under 6.2.2

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[R2-2009748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009748.zip) Miscellaneous corrections to 38.340 for IAB Huawei, HiSilicon, Ericsson CR Rel-16 38.340 16.2.0 0009 - F NR\_IAB-Core

- [018] Rap, Intermediate: P1: The CR can be agreed, with the following changes: Remove unaffected sections from the CR altogether (Section 2, 6). Add missing clauses to the list of affected clauses in the CR’s cover sheet (Clause 5.3.1, 5.4.1)

- [018] Rap, Intermediate: P2: Agree the following addition in the end to the NOTE in section 5.2.1.1 “whose BAP address matches the DESTINATION field”. [018] Chair comment: Wording can be further elaborated.

* [018] revised

[R2-2009178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009178.zip) BAP behaviour at RLF Samsung Electronics GmbH CR Rel-16 38.340 16.2.0 0008 - F NR\_IAB-Core

[R2-2009927](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009927.zip) Handling descendant node traffic at HO Samsung, ZTE CR Rel-16 38.340 16.2.0 0010 - F NR\_IAB-Core

* [018] not Pursued

### 6.2.3 User plane Corrections

38321

* [AT112-e][037][IAB] User Plane (Ericsson)

Treat tdocs under 6.2.3

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[R2-2009745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009745.zip) Correction on Tdelta Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0938 - F NR\_IAB-Core

[R2-2010152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010152.zip) Correction to tDelta Ericsson CR Rel-16 38.321 16.2.1 0963 - F NR\_IAB-Core

[R2-2010150](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010150.zip) Pre-emptive BSR handling at MAC Reset Ericsson CR Rel-16 38.321 16.2.1 0962 - F NR\_IAB-Core

[R2-2010419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010419.zip) Correction on the condition check in Pre-emptive BSR procedure ASUSTeK CR Rel-16 38.321 16.2.1 0984 - F NR\_IAB-Core

[R2-2009324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009324.zip) CR to 38.322 on Backhaul RLC Channel vivo CR Rel-16 38.322 16.1.0 0037 - F NR\_IAB-Core

Moved from 6.2.6

R2-2010684 Summary of Rel-16 IAB UP issues and corrections Samsung discussion Rel-16 NR\_IAB-Core

### 6.2.4 RRC Corrections

38331 36331

38331

* [AT112-e][019][IAB] NR RRC 38331 (Huawei)

Treat 38331 tdocs under 6.2.4

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Miscellaneous

[R2-2010149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010149.zip) RRC Miscellaneous Corrections Ericsson, Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2184 - F NR\_IAB-Core

[R2-2009323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009323.zip) Miscellaneous corrections to TS 38.331 for IAB vivo CR Rel-16 38.331 16.2.0 2054 - F NR\_IAB-Core

[R2-2009747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009747.zip) Correction on configuration of availabilityIndicator Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2123 - F NR\_IAB-Core

[R2-2009746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009746.zip) Correction on non-DRB for IAB-MT Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2122 - F NR\_IAB-Core

[R2-2009749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009749.zip) Corrections on BH RLC bearer Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2124 - F NR\_IAB-Core

[R2-2010229](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010229.zip) Support of Rel-16 features for SCG in EN-DC and NR-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2192 - F NR\_IAB-Core, NR\_Mob\_enh-Core

Moved from 6.1.3

- Chair: Review this doc also in the NR mob email discussion.

[R2-2009005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009005.zip) Correction on RRC function description for IAB Fujitsu CR Rel-16 38.331 16.2.0 2025 - F NR\_IAB-Core

[R2-2010638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010638.zip) Miscellaneous corrections for IAB Samsung R&D Institute UK CR Rel-16 38.331 16.2.0 2266 - F NR\_IAB-Core

Failure Handling

[R2-2009390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009390.zip) CR for TS38.331 on RLF cause for IAB BH RLF ZTE, Sanechips CR Rel-16 38.331 16.2.0 2062 - F NR\_IAB-Core

[R2-2010602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010602.zip) Cause value due to the reception of BH RLF indication Lenovo, Motorola Mobility CR Rel-16 38.331 16.2.0 2257 - F NR\_IAB-Core

[R2-2009750](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009750.zip) Corrections on intra-donor CU RLF recovery and RLF cause determination Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2125 - F NR\_IAB-Core

[R2-2010635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010635.zip) Transmission suspension on BH RLC channel upon IAB-MT failure Samsung R&D Institute UK CR Rel-16 38.331 16.2.0 2265 - F NR\_IAB-Core

36331

* [AT112-e][020][IAB] LTE RRC 36331 (vivo)

Treat 36331 tdocs under 6.2.4

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[R2-2009322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009322.zip) Miscellaneous corrections to TS 36.331 for IAB vivo CR Rel-16 36.331 16.2.1 4459 - F NR\_IAB-Core

[R2-2010230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010230.zip) Support of Rel-16 features for SCG in EN-DC Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4501 - F NR\_IAB-Core

Moved from 6.1.3

### 6.2.5 UE capabilities

Including corrections and remaining open issues if any on RAN2 capabilities and minimum capabilities of IAB MT.

* [AT112-e][021][IAB] UE capabilities (Nokia)

Treat tdocs under 6.2.5

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, endorsed CRs. Reply LS

Deadline: Short UE caps

DISCUSSION on-line

- Nokia reports that the email discussion is converging.

- One field will not be used and need to be dummified.

**[021] Discussion**

* [021] RAN2 agrees to send a LS to RAN4 to inform that that from RAN2 perspective:

**- there is no impact to RAN2 design/signalling if Feature 2-8 (Power class) is not applicable to IAB-MT**

**- it is feasible that that IAB-MT ignores the NS signalling and P-max.**

* [021] Remove the capability multipleNS-And-Pmax-IAB.
* [021] Reflecting RAN4 requirements that IAB-MT should ignore the advertised NS during the initial access procedure.
* [021] Capture behaviour to IAB-MT when ignoring the advertised NS values and P-max in TS38.331, details acc to discussion.
* [021] Have clarification to the field description of *powerClass* and *ue-PowerClass* on non-applicability to IAB-MT.

R2-2011019 Clarification on Power class, Multiple NS and Pmax applicability to IAB-MT Nokia, Nokia Shanghai Bell, Huawei

R2-2011020 Clarification on Multiple NS and Pmax applicability to IAB-MT Nokia, Nokia Shanghai Bell , Huawei

R2-2011021 Reply on IAB-MT feature list, RAN2 LS out

[R2-2008954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008954.zip) Discussion on the Issues from RAN4 LS on IAB-MT Feature List CATT discussion Rel-16 NR\_IAB-Core

* [021] Noted

[R2-2009417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009417.zip) Clarification on IAB-MT capability for Multiple NS Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.2.0 0427 - F NR\_IAB-Core

[R2-2009418](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009418.zip) Clarification on Multiple NS and Pmax applicability to IAB-MT Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2074 - F NR\_IAB-Core

[R2-2010352](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010352.zip) Corrections based on RAN4 LS about IAB-MT feature Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2208 - F NR\_IAB-Core

[R2-2010353](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010353.zip) Corrections based on RAN4 LS about IAB-MT feature Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0446 - F NR\_IAB-Core

* [021] Merged

### 6.2.6 Other Corrections

E.g. 3x.304

## 6.3 NR-based Access to Unlicensed Spectrum

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: RP-192926; SR; RP-201141; R1 and R2 are 100% Complete). Documents in this agenda item will be handled in a break out session.).

Limit: 4 email threads

### 6.3.1 General and Stage-2 Corrections

Including incoming LSs, Wi or TS rapporteur inputs, etc.

[R2-2008702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008702.zip) LS on UE behavior for P/SP-CSI-RS reception in NR-U (R1-2006195; contact: MediaTek) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN4 Cc:RAN2

[R2-2008718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008718.zip) Reply LS on UE declaring beam failure due to LBT failures during active TCI switching (R1-2007424; contact: Nokia) RAN1 LS in Rel-16 NR\_unlic-Core To:RAN4 Cc:RAN2

[R2-2008743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008743.zip) LS reply to RAN1on UE capability on wideband carrier operation for NR-U (R4-2011931; contact: MediaTek) RAN4 LS in Rel-16 NR\_unlic-Core To:RAN1, RAN2

[R2-2009560](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009560.zip) Miscellaneous corrections for NR-U Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2091 - F NR\_unlic-Core

[R2-2010399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010399.zip) Discussion on NR-U capabilities Qualcomm Incorporated discussion

### 6.3.2 User plane

[R2-2008858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008858.zip) Corrections on autonomous retransmissions CATT CR Rel-16 38.321 16.2.1 0895 - F NR\_unlic-Core

[R2-2009297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009297.zip) Correction on early termination for repetitions Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0923 - F NR\_unlic-Core

[R2-2009298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009298.zip) Correction on autonomous retransmission for NR-U Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0924 - F NR\_unlic-Core

[R2-2009300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009300.zip) Correction to NDI toggling for Configured Grant for NRU Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0925 - F NR\_unlic-Core

[R2-2010136](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010136.zip) Clarification of PUCCH resource usage in NR-U Qualcomm Incorporated CR Rel-16 38.321 16.2.1 0961 - F NR\_unlic-Core

[R2-2010163](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010163.zip) Correction of HARQ operation for NR-U Ericsson CR Rel-16 38.321 16.2.1 0966 - F NR\_unlic-Core

[R2-2010420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010420.zip) Clarification for bundling transmission ASUSTek CR Rel-16 38.321 16.2.1 0985 - F NR\_unlic-Core

[R2-2010440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010440.zip) Consideration on multiple CG with HARQ sharing LG Electronics UK discussion NR\_unlic-Core

### 6.3.3 Control plane

[R2-2009194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009194.zip) Editorial Corrections in RRC for NR-U ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2041 - D NR\_unlic-Core

[R2-2009195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009195.zip) Correction to NR-U Energy Detection Threshold configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2042 - F NR\_unlic-Core

[R2-2009295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009295.zip) Correction on description for extendedRAR-window Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0424 - F NR\_unlic-Core

[R2-2009296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009296.zip) Correction of field description for ra-ResponseWindow Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.2.0 2052 - F NR\_unlic-Core, NR\_2step\_RACH-Core

[R2-2009299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009299.zip) Correction on ssb-SubcarrierOffset in MIB Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.2.0 2053 - F NR\_unlic-Core

[R2-2009349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009349.zip) Clarification on HARQ processes sharing Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2055 - F NR\_unlic-Core

[R2-2009545](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009545.zip) UE expects clarification Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2088 - F NR\_unlic-Core

[R2-2009546](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009546.zip) RMTC measurement timing Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2089 - F NR\_unlic-Core

[R2-2009602](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009602.zip) Corrections on cg-RetransmissionTimer Lenovo, Motorola Mobility, LG Electronics CR Rel-16 38.331 16.2.0 2096 - F NR\_unlic-Core

[R2-2009999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009999.zip) Miscellaneous corrections Ericsson CR Rel-16 38.331 16.2.0 2155 - F NR\_unlic-Core

[R2-2010000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010000.zip) Correction on csi-RS-ValidationWithDCI Ericsson CR Rel-16 38.331 16.2.0 2156 - F NR\_unlic-Core

[R2-2010001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010001.zip) Correction to search space switching config Ericsson CR Rel-16 38.331 16.2.0 2157 - F NR\_unlic-Core

[R2-2010002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010002.zip) Correction on freqMonitorLocations Ericsson CR Rel-16 38.331 16.2.0 2158 - F NR\_unlic-Core

## 6.4 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Aug 20; WID: RP-200129; SR: RP-200431). Documents in this agenda item will be handled in a break out session

Limit: 7 email threads

### 6.4.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc.

[R2-2008712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008712.zip) Reply LS on UE capability (R1-2007339; contact: Oppo) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2 Cc:RAN4

[R2-2008713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008713.zip) Reply LS on maximum data rate for NR sidelink (R1-2007353; contact: Samsung) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2008714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008714.zip) Reply LS to RAN2 on physical layer related agreements (R1-2007389; contact: Intel) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

[R2-2008735](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008735.zip) LS on definition of NR V2X con-current operation (R4-2011713; contact: Huawei) RAN4 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN1, RAN2

[R2-2008757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008757.zip) LS on Tx Profile for NR PC5 (S2-2006191; contact: LGE) SA2 LS in Rel-16 eV2XARC To:RAN2

R2-2008941 Draft LS to RAN1 on in-device coexistence operation LG Electronics France LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN1 Withdrawn

[R2-2009050](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009050.zip) [draft]LS on calculation of CG type 1 and type 2 ZTE Corporation, Sanechips LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN1

[R2-2009404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009404.zip) Correction on V2X functions in TS 38.300 Huawei, HiSilicon CR Rel-16 38.300 16.3.0 0308 - F 5G\_V2X\_NRSL-Core

[R2-2009408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009408.zip) On the need of Tx profile for Rel-16 NR sidelink communication Huawei, HiSilicon discussion

[R2-2009409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009409.zip) [Draft] Reply LS on TX profile for NR PC5 Huawei, HiSilicon LS out Rel-16 5G\_V2X\_NRSL-Core To:SA2

[R2-2009410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009410.zip) [Draft] Reply LS on definition of NR V2X con-current operation Huawei, HiSilicon LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN4

[R2-2009825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009825.zip) Stage-2 corrections on 38.300 vivo CR Rel-16 38.300 16.3.0 0288 1 F 5G\_V2X\_NRSL-Core R2-2007868

[R2-2010185](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010185.zip) Correction for NR SL communication Samsung Electronics CR Rel-16 38.300 16.3.0 0290 1 F 5G\_V2X\_NRSL-Core R2-2007920

[R2-2010687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010687.zip) Reply LS on the re-keying procedure for NR SL (C1-206576; contact: CATT) CT1 LS in Rel-16 eV2XARC To:RAN2 Cc:SA3

### 6.4.2 Control plane corrections

CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes.

[R2-2008784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008784.zip) Correction on value range of sl-NumSSB-WithinPeriod OPPO CR Rel-16 38.331 16.2.0 2013 - F 5G\_V2X\_NRSL-Core

[R2-2008875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008875.zip) Discussion on left issue of 38.304 and 36.304 CATT discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2008876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008876.zip) Correction to TS 38.304 CATT CR Rel-16 38.304 16.2.0 0188 - F 5G\_V2X\_NRSL-Core

[R2-2008877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008877.zip) Correction to TS 36.304 CATT CR Rel-16 36.304 16.2.0 0813 - F 5G\_V2X\_NRSL-Core

[R2-2008878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008878.zip) Clarification on the description of sl-AssistanceConfigNR CATT CR Rel-16 38.331 16.2.0 2022 - F 5G\_V2X\_NRSL-Core

[R2-2008942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008942.zip) Discussion on synchronization procedure under in-device coexistence operation LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2009049](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009049.zip) Corrections on sl-TimeResource in TS 38.331 ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2026 - F 5G\_V2X\_NRSL-Core

[R2-2009053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009053.zip) CR on TS 38.331 for slot interval between neighboring sidelink SSBs ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2027 - F 5G\_V2X\_NRSL-Core

[R2-2009100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009100.zip) DAPS HO and NR Sidelink Communication Samsung Electronics Co., Ltd discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009317](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009317.zip) Addition of the E-UTRA ARFCN in crossRAT SL SHARP Corporation discussion 5G\_V2X\_NRSL-Core

[R2-2009403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009403.zip) Correction on the definition of RLC-ParametersSidelink-r16 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2068 - F 5G\_V2X\_NRSL-Core

[R2-2009405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009405.zip) Clarification on the SL measurement configuration update Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2069 - F 5G\_V2X\_NRSL-Core

[R2-2009406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009406.zip) Correction on SDAP related procedures and configurations in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2070 - F 5G\_V2X\_NRSL-Core

[R2-2009407](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009407.zip) CR on L1 parameters for NR sidelink communication Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2071 - F 5G\_V2X\_NRSL-Core

[R2-2009520](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009520.zip) Correction on Stored Sidelink Measurement Configuration Apple, Ericsson CR Rel-16 38.331 16.2.0 2085 - F 5G\_V2X\_NRSL-Core

[R2-2009664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009664.zip) Corrections to NR V2X and Sidelink Lenovo, Motorola Mobility CR Rel-16 38.331 16.2.0 2101 - F 5G\_V2X\_NRSL-Core

[R2-2009676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009676.zip) Left issue on inter-frequency operation for NR-V2X OPPO discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009702](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009702.zip) Correction on protection information for sidelink messages Ericsson CR Rel-16 36.331 16.2.1 4476 - F 5G\_V2X\_NRSL-Core

[R2-2009703](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009703.zip) Correction on operations of sidelink DRB release, addition, and modification Ericsson CR Rel-16 38.331 16.2.0 2108 - F 5G\_V2X\_NRSL-Core

[R2-2009704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009704.zip) Missing value for sl-DCI-ToSL-Trans Ericsson CR Rel-16 38.331 16.2.0 2109 - F 5G\_V2X\_NRSL-Core

[R2-2009705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009705.zip) Correction on S-SSB periodicity values Ericsson CR Rel-16 38.331 16.2.0 2110 - F 5G\_V2X\_NRSL-Core

[R2-2009706](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009706.zip) Missing sidelink-related field descriptions Ericsson CR Rel-16 38.331 16.2.0 2111 - F 5G\_V2X\_NRSL-Core

[R2-2009709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009709.zip) Adding protection information for sidelink messages Ericsson CR Rel-16 38.331 16.2.0 2114 - F 5G\_V2X\_NRSL-Core

[R2-2009710](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009710.zip) Missing SidelinkUEInformation in processing delay requirements Ericsson CR Rel-16 38.331 16.2.0 2115 - F 5G\_V2X\_NRSL-Core

[R2-2009711](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009711.zip) Correction on setting of sl-FailureList in SidelinkUEInformation Ericsson CR Rel-16 38.331 16.2.0 2116 - F 5G\_V2X\_NRSL-Core

[R2-2009712](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009712.zip) Corrections to sidelink radio link failure Ericsson CR Rel-16 38.331 16.2.0 2117 - F 5G\_V2X\_NRSL-Core

[R2-2009713](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009713.zip) Correction on sidelink reset configuration Ericsson CR Rel-16 38.331 16.2.0 2118 - F 5G\_V2X\_NRSL-Core

[R2-2009714](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009714.zip) Correction on conditions for sidelink DRB release Ericsson CR Rel-16 38.331 16.2.0 2119 - F 5G\_V2X\_NRSL-Core

[R2-2009715](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009715.zip) Correction to transmission of MasterInformationBlockSidelink Ericsson CR Rel-16 38.331 16.2.0 1842 1 F 5G\_V2X\_NRSL-Core R2-2007395

[R2-2009718](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009718.zip) Correction to the setting of empty SL RRC messages Ericsson CR Rel-16 38.331 16.2.0 1826 1 F 5G\_V2X\_NRSL-Core R2-2007282

[R2-2009778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009778.zip) Correction to UEAssistanceInformation for sidelink communication Google Inc. CR Rel-16 38.331 16.2.0 2128 - F 5G\_V2X\_NRSL-Core

[R2-2009826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009826.zip) Miscellaneous corrections to 38.331 on SL operation vivo CR Rel-16 38.331 16.2.0 2131 - F 5G\_V2X\_NRSL-Core

[R2-2009827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009827.zip) 38.304 Correction on cell (re)selection for sidelink UE vivo CR Rel-16 38.304 16.2.0 0191 - F 5G\_V2X\_NRSL-Core

[R2-2009828](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009828.zip) 36.304 Correction on cell (re)selection for sidelink UE vivo CR Rel-16 36.304 16.2.0 0815 - F 5G\_V2X\_NRSL-Core

[R2-2009836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009836.zip) Transmission of SidelinkUEInformation Google Inc. CR Rel-16 36.331 16.2.1 4490 - F 5G\_V2X\_NRSL-Core

[R2-2009837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009837.zip) Transmission of SidelinkUEInformationNR Google Inc. CR Rel-16 38.331 16.2.0 2132 - F 5G\_V2X\_NRSL-Core

[R2-2009989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009989.zip) Correction to ASN.1 inclusion conditions for V2X SL and UL prioritization thresholds MediaTek Inc., Ericsson, vivo, OPPO CR Rel-16 38.331 16.2.0 2152 - F 5G\_V2X\_NRSL-Core

[R2-2009990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009990.zip) Clarification with respect to validity of configured SL grant type 1 received in HO command Nokia, Nokia Shanghai Bell discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2010012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010012.zip) Correction on configured grant validity under RLF Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2160 - F 5G\_V2X\_NRSL-Core Withdrawn

[R2-2010017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010017.zip) Discussion of SLRB configuration mismatch Nokia, Nokia Shanghai Bell discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

[R2-2010060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010060.zip) Correction on SL configured grant type 1 validity under RLF Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2171 - F 5G\_V2X\_NRSL-Core

[R2-2010235](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010235.zip) Corrections on 36.331 for LTE V2X cross RAT configuration ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4502 - F 5G\_V2X\_NRSL-Core

[R2-2010300](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010300.zip) Miscellaneous corrections on TS 36.331 Huawei, Hisilicon CR Rel-16 36.331 16.2.1 4508 - F 5G\_V2X\_NRSL-Core

[R2-2010301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010301.zip) Miscellaneous corrections on TS 38.331 Huawei, Hisilicon CR Rel-16 38.331 16.2.0 2204 - F 5G\_V2X\_NRSL-Core Withdrawn

[R2-2010302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010302.zip) Correction on trigger of SL specific MAC reset in TS 38.331 Huawei, Hisilicon CR Rel-16 38.331 16.2.0 2205 - F 5G\_V2X\_NRSL-Core

[R2-2010421](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010421.zip) Corrections on resource reservation period configuration ASUSTeK CR Rel-16 38.331 16.2.0 2219 - F 5G\_V2X\_NRSL-Core

[R2-2010422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010422.zip) Correction on RRC reconfiguration failure for SL ASUSTeK CR Rel-16 38.331 16.2.0 2220 - F 5G\_V2X\_NRSL-Core

[R2-2010423](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010423.zip) Correction on RRC reconfiguration failure for SL ASUSTeK CR Rel-16 36.331 16.2.1 4511 - F 5G\_V2X\_NRSL-Core

[R2-2010442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010442.zip) On synchronization alignment between V2X SL and NR SL in the in-device coexistence environment Huawei, HiSilicon discussion

[R2-2010443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010443.zip) Correction on sidelink capability transfer procedure Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2224 - F 5G\_V2X\_NRSL

[R2-2010495](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010495.zip) Miscellaneous corrections on TS 38.331 Huawei, Hisilicon CR Rel-16 38.331 16.2.0 2230 - F 5G\_V2X\_NRSL-Core

[R2-2010678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010678.zip) Correction on MCS range OPPO CR Rel-16 38.331 16.2.0 2271 - F 5G\_V2X\_NRSL-Core

### 6.4.3 User plane corrections

CR rapporteur can provide miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company for small changes. Including [POST111-e][707][V2X] CR update to new RAN1 decisions (LG)

[R2-2008781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008781.zip) Correction for cast type indicator OPPO CR Rel-16 38.321 16.2.1 0891 - F 5G\_V2X\_NRSL-Core

[R2-2008782](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008782.zip) Correction on CG maximum retransmission number OPPO CR Rel-16 38.321 16.2.1 0892 - F 5G\_V2X\_NRSL-Core

[R2-2008783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008783.zip) Miscellaneous correction on NR V2X OPPO CR Rel-16 38.321 16.2.1 0893 - F 5G\_V2X\_NRSL-Core

[R2-2008798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008798.zip) 36321\_Correction of prioritization between SL and UL OPPO CR Rel-16 36.321 16.2.0 1504 - F 5G\_V2X\_NRSL-Core

[R2-2008799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008799.zip) 38321\_Correction of prioritization between SL and UL OPPO CR Rel-16 38.321 16.2.1 0894 - F 5G\_V2X\_NRSL-Core

[R2-2008800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008800.zip) Discussion on resource and HARQ process id of configured grant OPPO discussion Rel-16 5G\_V2X\_NRSL-Core R2-2006769

R2-2008801 Discussion on resource and HARQ process id of configured grant OPPO discussion Rel-16 5G\_V2X\_NRSL-Core R2-2006769 Withdrawn

[R2-2008879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008879.zip) clarification on priority handling CATT CR Rel-16 38.321 16.2.1 0897 - F 5G\_V2X\_NRSL-Core

[R2-2009044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009044.zip) Discussion on CG resource calculation ZTE Corporation, Sanechips discussion 5G\_V2X\_NRSL-Core

[R2-2009045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009045.zip) CR for TS 38.321 on calculation of CG type1 and type 2 ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0903 - F 5G\_V2X\_NRSL-Core

[R2-2009046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009046.zip) Correction on resource reselection for (pre-)emption ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0904 - F 5G\_V2X\_NRSL-Core

[R2-2009047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009047.zip) CR for TS 38.321 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0905 - F 5G\_V2X\_NRSL-Core

[R2-2009052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009052.zip) CR for TS 36.321 for NR V2X on miscellaneous issues ZTE Corporation, Sanechips CR Rel-16 36.321 16.2.0 1505 - F 5G\_V2X\_NRSL-Core

[R2-2009182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009182.zip) Priority handling on CSI reporting MAC CE Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009207.zip) Correction on Zone Configuration per Communication Range InterDigital, Apple CR Rel-16 38.321 16.2.0 0910 - F 5G\_V2X\_NRSL-Core

[R2-2009208](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009208.zip) Discussion on setting of range parameter in SCI InterDigital, Apple, Ericsson, Qualcomm, Nokia, Mediatek, Fraunhofer HHI, Fraunhofer IIS, Convida Wireless discussion Rel-16 5G\_V2X\_NRSL-Core R2-2006762

[R2-2009209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009209.zip) Corrections for setting of range parameter in SCI InterDigital, Apple, Ericsson, Qualcomm, Nokia, Mediatek, Fraunhofer HHI, Fraunhofer IIS, Convida Wireless CR Rel-16 38.321 16.2.0 0911 - F 5G\_V2X\_NRSL-Core

[R2-2009217](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009217.zip) Correction to sidelink MAC reset Ericsson CR Rel-16 38.321 16.2.1 0912 - F 5G\_V2X\_NRSL-Core

[R2-2009218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009218.zip) corrections to MAC spec regarding SL-CSI reporting MAC CE Ericsson CR Rel-16 38.321 16.2.1 0913 - F 5G\_V2X\_NRSL-Core

[R2-2009219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009219.zip) Correction to SL grant terminology Ericsson CR Rel-16 38.321 16.2.1 0914 - F 5G\_V2X\_NRSL-Core

[R2-2009220](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009220.zip) Correction to SL configured grant activation and deactivation Ericsson CR Rel-16 38.321 16.2.1 0915 - F 5G\_V2X\_NRSL-Core

[R2-2009221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009221.zip) Corrections on counting number of transmissions of a MAC PDU Ericsson CR Rel-16 38.321 16.2.1 0916 - F 5G\_V2X\_NRSL-Core

[R2-2009222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009222.zip) corrections to MAC spec regarding CG deactivation - Option 1 Ericsson CR Rel-16 38.321 16.2.1 0917 - F 5G\_V2X\_NRSL-Core

[R2-2009223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009223.zip) corrections to MAC spec regarding CG deactivation - Option 2 Ericsson CR Rel-16 38.321 16.2.1 0918 - F 5G\_V2X\_NRSL-Core

[R2-2009224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009224.zip) corrections to RRC spec regarding CG deactivation - Option 2 Ericsson CR Rel-16 38.331 16.2.0 2043 - F 5G\_V2X\_NRSL-Core

[R2-2009225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009225.zip) corrections to MAC spec regarding prioritization between UL and SL Ericsson CR Rel-16 38.321 16.2.1 0919 - F 5G\_V2X\_NRSL-Core

[R2-2009226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009226.zip) UE actions in case of CG deactivation Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009227.zip) open issues on UL SL prioritization Ericsson discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009250.zip) Report of [Post111-e][707][V2X] CR update to new RAN1 decisions LG Electronics France report Rel-16 5G\_V2X\_NRSL-Core

[R2-2009251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009251.zip) [Post111-e][707][V2X] LS on RAN1 agreement on pre-emption LG Electronics France LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN1

[R2-2009252](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009252.zip) [Post111-e][707][V2X] Corrections to 5G V2X with NR Sidelink LG Electronics France CR Rel-16 38.321 16.2.1 0920 - F 5G\_V2X\_NRSL-Core

[R2-2009253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009253.zip) Correction to pre-emption check for Sidelink resource allocation mode 2 LG Electronics France CR Rel-16 38.321 16.2.1 0921 - F 5G\_V2X\_NRSL-Core

[R2-2009254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009254.zip) Corrections to SR prioritization for NR sidelink communication LG Electronics France CR Rel-16 38.321 16.2.1 0922 - F 5G\_V2X\_NRSL-Core

[R2-2009318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009318.zip) Discussion on resource determination of SL configured grant SHARP Corporation discussion 5G\_V2X\_NRSL-Core

[R2-2009519](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009519.zip) Correction on TX UE handling of last transmission of MAC PDU Apple, InterDigital Inc. CR Rel-16 38.321 16.2.1 0931 - F 5G\_V2X\_NRSL-Core

[R2-2009829](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009829.zip) Support RLC Re-establishment vivo discussion R2-2007873

[R2-2009830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009830.zip) misalignment SL/UL prioritization betwwen MAC and PHY vivo discussion

[R2-2009831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009831.zip) Miscellaneous corrections for MAC vivo CR Rel-16 38.321 16.2.1 0946 - F 5G\_V2X\_NRSL-Core

[R2-2010010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010010.zip) On toggling of the NDI in SL resource allocation mode 1 Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0954 - F 5G\_V2X\_NRSL-Core

[R2-2010080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010080.zip) Correction to the logical channel selection procedure Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0959 - F 5G\_V2X\_NRSL-Core

[R2-2010186](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010186.zip) Correction to sidelink specific MAC reset Samsung Electronics CR Rel-16 38.321 16.2.1 0864 1 F 5G\_V2X\_NRSL-Core R2-2007929

[R2-2010303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010303.zip) Miscellaneous corrections on TS 38.321 Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0971 - F 5G\_V2X\_NRSL-Core

[R2-2010304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010304.zip) Correction on MCS selection Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0972 - F 5G\_V2X\_NRSL-Core

[R2-2010305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010305.zip) Correction on the clear of dynamic sidelink grants Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0973 - F 5G\_V2X\_NRSL-Core

[R2-2010306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010306.zip) Correction on the UE behaviour before the next period of SL CG Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0974 - F 5G\_V2X\_NRSL-Core

[R2-2010307](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010307.zip) Correction on the prioritization between UL MAC PDU and SL SR Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0975 - F 5G\_V2X\_NRSL-Core

[R2-2010308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010308.zip) Correction on the handling of collision among multiple SL grants Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0976 - F 5G\_V2X\_NRSL-Core

[R2-2010309](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010309.zip) Correction on the MAC reset Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0977 - F 5G\_V2X\_NRSL-Core

[R2-2010310](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010310.zip) Correction on HARQ process ID calculation for SL CG Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0978 - F 5G\_V2X\_NRSL-Core

[R2-2010311](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010311.zip) Correction on the condition to clear configured sidelink grant Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0979 - F 5G\_V2X\_NRSL-Core

[R2-2010312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010312.zip) Correction on resource (re-)selection for mode 2 Huawei, Hisilicon CR Rel-16 38.321 16.2.1 0980 - F 5G\_V2X\_NRSL-Core

[R2-2010313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010313.zip) Discussion on sidelink process association Huawei, Hisilicon discussion

[R2-2010314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010314.zip) Discussion on NDI maintenance Huawei, Hisilicon discussion

[R2-2010315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010315.zip) Discussion on Sidelink process management for RX UE Huawei, Hisilicon discussion

[R2-2010316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010316.zip) Discussion on retransmission on the selected sidelink grant and the configured sidelink grant Huawei, Hisilicon discussion

[R2-2010424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010424.zip) MAC Corrections for NR V2X ASUSTeK CR Rel-16 38.321 16.2.1 0986 - F 5G\_V2X\_NRSL-Core

[R2-2010425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010425.zip) RRC Corrections for SL PUCCH configuration ASUSTeK CR Rel-16 38.331 16.2.0 2221 - F 5G\_V2X\_NRSL-Core

[R2-2010491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010491.zip) Correction on resource re-selection vivo CR Rel-16 38.321 16.2.1 0990 - F 5G\_V2X\_NRSL-Core

[R2-2010677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010677.zip) Correction on MCS range OPPO CR Rel-16 38.321 16.2.1 0995 - F 5G\_V2X\_NRSL-Core

[R2-2010977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010977.zip) Left issues on security handling OPPO, CATT discussion Rel-16 5G\_V2X\_NRSL-Core

### 6.4.4 UE capabilities

Please contact / coordinate with CR rapporteur for small changes. Including [POST111-e][708][V2X] Update of capability CRs (OPPO)

[R2-2008785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008785.zip) Summary of [POST111-e][708][V2X] Update of capability CRs (OPPO) OPPO report Rel-16 5G\_V2X\_NRSL-Core

[R2-2008786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008786.zip) Draft 38.331 CR for V2X UE capability OPPO draftCR Rel-16 38.331 16.2.0 B 5G\_V2X\_NRSL-Core

[R2-2008787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008787.zip) Draft 38.306 CR for V2X UE capability OPPO draftCR Rel-16 38.306 16.2.0 B 5G\_V2X\_NRSL-Core

[R2-2008788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008788.zip) Draft 36.331 CR for V2X UE capability OPPO CR Rel-16 36.331 16.2.1 4449 - B 5G\_V2X\_NRSL-Core

[R2-2008789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008789.zip) Draft 36.306 CR for V2X UE capability OPPO CR Rel-16 36.306 16.2.0 1786 - B 5G\_V2X\_NRSL-Core

[R2-2008790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008790.zip) [Draft] Reply LS on maximum data rate for NR sidelink OPPO LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN1

[R2-2008938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008938.zip) Correction on LTE V2X UE capability OPPO, Huawei, HiSilicon, Samsung discussion Rel-16 5G\_V2X\_NRSL-Core

[R2-2009707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009707.zip) Correction on UECapabilityEnquirySidelink (Alt.2) Ericsson CR Rel-16 38.331 16.2.0 2112 - F 5G\_V2X\_NRSL-Core

[R2-2009708](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009708.zip) Correction on UECapabilityEnquirySidelink (Alt.1) Ericsson CR Rel-16 38.331 16.2.0 2113 - F 5G\_V2X\_NRSL-Core

[R2-2009716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009716.zip) Clarificationon on field description for supportedBandCombinationListSidelinkEUTRA-NR Ericsson CR Rel-16 38.331 16.2.0 2120 - F 5G\_V2X\_NRSL-Core

[R2-2009717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009717.zip) Correction on setting frequencyBandListFilterSidelink over PC5 Ericsson CR Rel-16 38.331 16.2.0 2121 - F 5G\_V2X\_NRSL-Core

[R2-2009719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009719.zip) Clarification on field description for supportedBandCombinationListSidelinkEUTRA-NR Ericsson CR Rel-16 38.306 16.2.0 0434 - F 5G\_V2X\_NRSL-Core

## 6.5 NR Industrial Internet of Things (IoT)

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: RP-200797; SR: RP-200796)

Limit: 5 email threads

### 6.5.1 General and Stage-2 corrections

Incoming LS etc.

[R2-2008752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008752.zip) Reply LS on 3GPP NR Rel-16 URLLC and IIoT performance evaluation (RP-202097; contact: Ericsson) RAN LS in Rel-16 NR\_IIOT-Core To:5G-ACIA Cc:RAN1, RAN2, SA1

No Action. Proposed Noted [000]

### 6.5.2 RRC Corrections

* [AT112-e][040][IIOT] RRC and UE cap Corrections (CATT)

Scope: Treat tdocs in AI 6.5.2, and AI 6.5.5 (see below)

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

Short Deadline: UE Cap Endorsed CRs 38306 (if agreeable): Nov 6.

Time Aspects

[R2-2008864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008864.zip) Clarification on referenceTimePreferenceReporting in RRC Reconfiguration Procedure CATT CR Rel-16 38.331 16.2.0 2021 - F NR\_IIOT-Core

[R2-2010102](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010102.zip) Correction regarding TimeReferenceSFN only for CG Type 1 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2174 - F NR\_IIOT-Core

[R2-2010101](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010101.zip) Correction on UE preference for reference time information provisioning Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2173 - F NR\_IIOT-Core

EHC

[R2-2010103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010103.zip) Correction regarding reconfigure EHC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2175 - F NR\_IIOT-Core

CG related

[R2-2009909](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009909.zip) CR on 38.331 for DL BWP configuration and LCH configuration for NRIIOT ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2142 - F NR\_IIOT-Core

Intra-UE prioritization

[R2-2009499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009499.zip) Clarification of Uplink Cancellation Priority Configuration Apple discussion Rel-16 NR\_IIOT-Core

### 6.5.5 Other

[R2-2009376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009376.zip) Correction on the pre-requisite condition for dci-UL-PriorityIndicator-r16 Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0426 - F NR\_IIOT-Core

* [040] Endorsed for Merge

[R2-2008863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008863.zip) Correction on dynamic PUSCH skipping when PUCCH with UCI overlaps with PUSCH CATT CR Rel-16 38.306 16.2.0 0414 - F NR\_IIOT-Core

* [040] not Pursued

### 6.5.3 MAC Corrections

* [AT112-e][041][IIOT] MAC I (Huawei)

Scope: Treat tdocs R2-2009500, R2-2009373, R2-2009375, R2-2009483 R2-20010054, R2-2009541, R2-2009374

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

Intra UE Prioritization

[R2-2009500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009500.zip) Configuration Options for Intra-UE Prioritization Apple discussion Rel-16 NR\_IIOT-Core

[R2-2010054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010054.zip) Intra-UE Prioritization inter-group feature dependency Ericsson discussion Rel-16 NR\_IIOT-Core

* Both noted

DISCUSSION on Apple P4-7 and Ericsson P

- CATT think we don’t need any global parameter

- Huawei agrees.

- MTK also think all is clear and think a change will be confusing.

- Oppo Samsung Intel also agrees.

- Apple think the global parameter makes things more simple and with less confusion.

Apple P1-3

- MTK wonders what is unclear

- Apple think this is clear only if you read multiple TSes.

- Chair: Other companies don’t think any clarifications are needed.

* No need to introduce additional configuration for Phy Priority and L2 priority feature.

[R2-2009373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009373.zip) Clarification on the condition of a de-prioritized grant Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0928 - F NR\_IIOT-Core

[R2-2009375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009375.zip) Clarification of PHY behaviour for Data & SR overlapping with equal L1 priority Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

[R2-2009483](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009483.zip) Clarification on the SR and PUSCH conflict with equal LCH priority Apple discussion Rel-16 NR\_IIOT-Core

[R2-2009541](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009541.zip) Consideration on L2 priority and PHY priority feature OPPO discussion Rel-16 NR\_IIOT-Core

[R2-2009374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009374.zip) Clarification of configuration for physical layer prioritization Huawei, HiSilicon discussion Rel-16 NR\_IIOT-Core

* [AT112-e][042][IIOT] MAC II (Samsung)

Scope: Treat tdocs, R2-2009599, R2-2009752, R2-2010525,R2-2009048, R2-2009372, R2-2010052,

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

Determination of priority

[R2-2009599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009599.zip) Priority of Uplink Grant Samsung, Ericsson discussion Rel-16 NR\_IIOT-Core

[R2-2009752](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009752.zip) Clarification of Grant Priority Determination Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0939 - F NR\_IIOT-Core

Impact of UL skipping

[R2-2010525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010525.zip) PUSCH Carrying Multiplexed UCI in Intra-UE Prioritization Samsung discussion Rel-16 NR\_IIOT-Core

TC-RNTI

[R2-2009048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009048.zip) CR on 38.321 for the UL transmission scheduled with TC-RNTI ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0906 - F NR\_IIOT-Core

[R2-2009372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009372.zip) Correction on resource overlapping with grants addressed to T-C-RNTI Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0927 - F NR\_IIOT-Core

SPS

[R2-2010052](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010052.zip) Correction for SPS HARQ process ID calculation Ericsson CR Rel-16 38.321 16.2.1 0957 - F NR\_IIOT-Core

* [AT112-e][043][IIOT] MAC II (Nokia)

Scope: Treat R2-2009539, R2-2009540, R2-2009753, R2-2010053, R2-2010100, R2-2010522

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

CG related

[R2-2009539](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009539.zip) Correction on autonomous transmission for the deprioritized CG-Alt1 OPPO CR Rel-16 38.321 16.2.1 0932 - F NR\_IIOT-Core

[R2-2009540](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009540.zip) Correction on autonomous transmission for the deprioritized CG-Alt2 OPPO CR Rel-16 38.321 16.2.1 0933 - F NR\_IIOT-Core

[R2-2009753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009753.zip) Configured grant timer termination upon PUSCH cancellation Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0940 - F NR\_IIOT-Core

[R2-2010053](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010053.zip) Clarification for CG overlapping with PUSCH duration of MSGA Ericsson CR Rel-16 38.321 16.2.1 0958 - F NR\_IIOT-Core

[R2-2010100](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010100.zip) Correction on construction of Multiple Entry CG Confirmation MAC CE Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0960 - F NR\_IIOT-Core

[R2-2010522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010522.zip) Correction of Multiple Entry Configured Grant Confirmation Samsung CR Rel-16 38.321 16.2.1 0992 - F NR\_IIOT-Core

### 6.5.4 PDCP Corrections

* [AT112-e][044][IIOT] PDCP (Ericsson)

Scope: Treat tdocs in AI 6.5.4.1, AI 6.5.4.2

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Thu Nov 12, 1200 UTC

#### 6.5.4.1 Duplication

[R2-2009908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009908.zip) Correction on 38.323 for PDCP duplication with more than two RLC entities for SRB ZTE Corporation, Sanechips CR Rel-16 38.323 16.2.0 0057 - F NR\_IIOT-Core

[R2-2010055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010055.zip) Corrections for PDCP duplication Ericsson discussion Rel-16 NR\_IIOT-Core

#### 6.5.4.2 Ethernet Header Compression

[R2-2009564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009564.zip) CR on LTE PDCP re-establishment for UM DRB when t-Reordering is used Samsung CR Rel-16 36.323 16.2.0 0291 - F NR\_IIOT-Core

[R2-2010056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010056.zip) Corrections for EHC Ericsson discussion Rel-16 NR\_IIOT-Core

## 6.6 NR Positioning Support

(NR\_pos-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Jun 20; WID: RP-200218, SR: RP-201342). R2 and R1 parts are 100% complete (NR TEI16 Positioning)

Documents in this agenda item will be handled in a break out session

Limit: 5 email threads

### 6.6.1 General and Stage 2 corrections

Including incoming LSs, Including impact to 36.305 and 38.305. Stage 2 corrections should be discussed with the specification rapporteur before submission.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008746](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008746.zip) Reply LS on positioning SRS during DRX inactive time (R4-2012143; contact: Apple) RAN4 LS in Rel-16 NR\_pos-Core To:RAN2 Cc:RAN1

[R2-2008748](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008748.zip) LS on new measurement gap patterns for positioning measurements (R4-2012285; contact: Ericsson) RAN4 LS in Rel-16 NR\_pos-Core To:RAN4 Cc:RAN2

[R2-2008803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008803.zip) Minor corrections on TS 36.305 CATT CR Rel-16 36.305 16.2.0 0093 - F NR\_newRAT-Core

[R2-2008804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008804.zip) Minor corrections on TS 38.305 CATT CR Rel-16 38.305 16.2.0 0035 - F NR\_newRAT-Core

R2-2008805 Correction on the NOTE in architecture figure in TS 38.305 CATT CR Rel-16 38.305 16.2.0 0036 - F NR\_newRAT-Core Withdrawn

[R2-2009000](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009000.zip) Remove the NOTE in architecture figure in TS 38.305 Intel Corporation CR Rel-16 38.305 16.2.0 0037 - F NR\_pos-Core

[R2-2010067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010067.zip) Activation Time for Periodic UL SRS Transmission Ericsson discussion Rel-16

[R2-2010068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010068.zip) Correction to SUPL support for NR positioning methods Ericsson CR Rel-16 38.305 16.2.0 0038 - F NR\_pos-Core

[R2-2010069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010069.zip) Correction of stage 2 positioning architecture aspects Ericsson CR Rel-16 38.305 16.2.0 0039 - F NR\_pos-Core

[R2-2010070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010070.zip) Missing Updates for Aperiodic UL SRS Support Ericsson CR Rel-16 38.305 16.2.0 0040 - F NR\_pos-Core

[R2-2010092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010092.zip) SUPL support for NR positioning methods Qualcomm Incorporated CR Rel-16 38.305 16.2.0 0041 - F NR\_pos-Core

[R2-2010141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010141.zip) Corrections to E-CID and NR E-CID positioning Nokia, Nokia Shanghai Bell CR Rel-16 38.305 16.2.0 0043 - F NR\_pos-Core

[R2-2010266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010266.zip) Miscellaneous corrections for 38305 Huawei, HiSilicon CR Rel-16 38.305 16.2.0 0044 - F NR\_pos-Core

[R2-2010267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010267.zip) Correction to stage2 spec for SRS (de-)activaton Huawei, HiSilicon CR Rel-16 38.305 16.2.0 0045 - F NR\_pos-Core

[R2-2010268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010268.zip) Correction to stage2 of NR ECID Huawei, HiSilicon CR Rel-16 38.305 16.2.0 0046 - F NR\_pos-Core

[R2-2010573](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010573.zip) Clarification on usage of ECID procedure Ericsson CR Rel-16 38.305 16.2.0 0049 - F NR\_pos-Core

[R2-2010574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010574.zip) Updates on missing deferred location requests Ericsson CR Rel-16 38.305 16.2.0 0050 - F NR\_pos-Core

[R2-2010575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010575.zip) Alignment of the position information format with SA2 specification Ericsson CR Rel-16 38.305 16.2.0 0051 - F NR\_pos-Core

[R2-2010657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010657.zip) Miscellaneous correction for stage 2 Ericsson CR Rel-16 38.305 16.2.0 0052 - F NR\_pos-Core

[R2-2010674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010674.zip) Summary document for agenda item 6.6.1 - NR Positioning Stage2 Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_pos-Core Late

### 6.6.2 RRC corrections

Including impact to 36.331, 38.331, and 38.306.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008806.zip) Corrections on 38.331 to capture agreements of area scope for posSIB validity CATT,Ericsson CR Rel-16 38.331 16.2.0 2014 - F NR\_newRAT-Core

[R2-2008807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008807.zip) Corrections on description of sfn-Offset and sfn0-Offset in SSB-Configuration in TS 38.331 CATT CR Rel-16 38.331 16.2.0 2015 - F NR\_newRAT-Core

[R2-2008808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008808.zip) Correction on the missed description of sfn-SSB-Offset in SSB-Configuration in TS 38.331 CATT CR Rel-16 38.331 16.2.0 2016 - F NR\_newRAT-Core

[R2-2010071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010071.zip) Corrections and update for RRC Positioning Ericsson CR Rel-16 38.331 16.2.0 2172 - F NR\_pos-Core

[R2-2010269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010269.zip) CR on SI window for positioning SI message Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2196 - F NR\_pos-Core

[R2-2010270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010270.zip) Correction on posSRS configuration Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2197 - F NR\_pos-Core

[R2-2010273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010273.zip) Correction on posSIB broadcastStatus Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2199 - F NR\_pos-Core

[R2-2010709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010709.zip) Summary for RRC Corrections for Positioning Ericsson discussion

### 6.6.3 LPP corrections

This agenda item may use a summary document (decision to be made based on submitted tdocs).

R2-2008809 Correction on sfn-SSB-Offset in NR-SSB-Config-r16 in TS 37.355 CATT CR Rel-16 37.355 16.2.0 0273 - F NR\_newRAT-Core Withdrawn

[R2-2009042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009042.zip) Discussion on whether PRS ID can be reused on different frequency layers vivo Mobile Communication Co., discussion

[R2-2010093](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010093.zip) Clarification of quality and time stamp for RSTD measurements Qualcomm Incorporated CR Rel-16 37.355 16.2.0 0274 - F NR\_pos-Core

[R2-2010263](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010263.zip) Correction on PRS configuration Huawei, HiSilicon CR Rel-16 37.355 16.2.0 0275 - F NR\_pos-Core

[R2-2010264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010264.zip) Correction on NR E-CID Huawei, HiSilicon CR Rel-16 37.355 16.2.0 0276 - F NR\_pos-Core

[R2-2010265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010265.zip) LPP corrections on UE capability signaling Huawei, HiSilicon discussion Rel-16 NR\_pos-Core

[R2-2010975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010975.zip) Summary of LPP corrections agenda item 6.6.3 Qualcomm Incorporated discussion

### 6.6.4 MAC corrections

[R2-2010066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010066.zip) SRS for Positioning transmission in Connected mode DRX Ericsson discussion Rel-16

[R2-2010271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010271.zip) Correction on SP posSRS (de-)activation MAC CE Huawei, HiSilicon CR Rel-16 38.321 16.2.0 0970 - F NR\_pos-Core

### 6.6.5 Other

## 6.7 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: RP-192277; SR RP-201273). Documents in this agenda item will be handled in a break out session).

Documents under 6.7 will be treated together with documents in 7.4.

No documents should be submitted to 6.7. Please submit to 6.7.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Limit: 8 email threads (with 7.4)

### 6.7.1 General and Stage-2 Corrections

Including incoming LSs (if any).

[R2-2009312](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009312.zip) Miscellaneous corrections to Mobility Enhancements Nokia (Rapporteur), Ericsson, Intel Corporation, Nokia Shanghai Bell, Sanechips, ZTE CR Rel-16 38.300 16.3.0 0305 - F NR\_Mob\_enh-Core

[R2-2009386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009386.zip) Clarification on CHO in LTE-DC ZTE Corporation, Sanechips CR Rel-16 36.300 16.3.0 1321 - F LTE\_feMob-Core

[R2-2009995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009995.zip) Clarification of CHO simultaneous with DAPS Ericsson discussion NR\_Mob\_enh-Core

[R2-2010187](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010187.zip) Correction on TS 38.300 for CHO Huawei, HiSilicon CR Rel-16 38.300 16.3.0 0314 - F NR\_Mob\_enh-Core

[R2-2010188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010188.zip) Correction on TS 36.300 for CHO Huawei, HiSilicon CR Rel-16 36.300 16.3.0 1326 - F LTE\_feMob-Core

[R2-2010354](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010354.zip) Miscellaneous corrections for Mobility Enhancements ZTE Corporation, Sanechips, Ericsson CR Rel-16 37.340 16.3.0 0236 - F NR\_Mob\_enh-Core

[R2-2010651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010651.zip) Correction to RLF in case of DAPS HO Samsung Electronics Co., Ltd CR Rel-16 38.300 16.3.0 0322 - F NR\_Mob\_enh-Core

### 6.7.2 Conditional handover related corrections

This AI jointly addresses corrections to NR and LTE CHO.

[R2-2009472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009472.zip) Target cell ID parsing in CHO and CPAC Apple CR Rel-16 38.331 16.2.0 2080 - F NR\_Mob\_enh-Core

[R2-2009533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009533.zip) Correction on configuration of triggerCondition for CHO CATT CR Rel-16 36.331 16.2.1 4466 - F LTE\_feMob-Core

[R2-2009639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009639.zip) Correction to conditional reconfiguration evaluation ITRI CR Rel-16 38.331 16.2.0 2099 - F NR\_Mob\_enh-Core

[R2-2009640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009640.zip) Correction to remove conditional reconfiguration related measurement configuration ITRI CR Rel-16 38.331 16.2.0 2100 - F NR\_Mob\_enh-Core

[R2-2009848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009848.zip) Correction to attemptCondReconfig in ConditionalReconfiguration Ericsson CR Rel-16 38.331 16.2.0 2140 - F NR\_Mob\_enh-Core

[R2-2009996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009996.zip) Missing release of VarConditionalReconfig Ericsson CR Rel-16 38.331 16.2.0 2153 - F NR\_Mob\_enh-Core

[R2-2009997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009997.zip) Missing release of VarConditionalReconfiguration Ericsson CR Rel-16 36.331 16.2.1 4491 - F NR\_Mob\_enh-Core

[R2-2009998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009998.zip) Inability to comply with conditional reconfiguration Ericsson CR Rel-16 38.331 16.2.0 2154 - F NR\_Mob\_enh-Core

[R2-2010189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010189.zip) Correction on TS 38.331 for CHO Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2185 - F NR\_Mob\_enh-Core

[R2-2010190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010190.zip) Correction on TS 36.331 for CHO Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4498 - F LTE\_feMob-Core

[R2-2010205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010205.zip) Issue on failure handling of handover without key change for the UE configured with attemptCondReconfig SHARP Corporation discussion Rel-16 NR\_Mob\_enh-Core

[R2-2010206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010206.zip) Correction of reconfiguration with sync failure procedure for the UE configured with attemptCondReconfig SHARP Corporation CR Rel-16 38.331 16.2.0 2190 - F NR\_Mob\_enh-Core

[R2-2010253](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010253.zip) UE information transmission in NR CHO case SHARP Corporation, Ericsson discussion Rel-16 NR\_Mob\_enh-Core R2-2007718

[R2-2010254](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010254.zip) Clarification on UE information transmission in CHO case(38.331) SHARP Corporation, Ericsson CR Rel-16 38.331 16.2.0 2194 - F NR\_Mob\_enh-Core

### 6.7.3 Conditional PSCell change for intra-SN corrections

Including corrections for CPC.

[R2-2009766](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009766.zip) Corrections to CPC with and without SRB3 involved Nokia, Nokia Shanghai Bell, ZTE Corporation (Rapporteur) CR Rel-16 37.340 16.3.0 0220 1 F NR\_Mob\_enh-Core R2-2007360

[R2-2010589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010589.zip) Correction to CG-Config for CPC Google Inc. CR Rel-16 38.331 16.2.0 2251 - F NR\_Mob\_enh-Core

### 6.7.4 UE capability corrections

Including UE capability aspects of NR mobility WI and joint LTE/NR capability corrections..

Including outcome of [Post111-e][921][DAPS] DAPS capability structure clarifications (Huawei)

[R2-2008827](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008827.zip) NR DAPS capability corrections Nokia, Nokia Shanghai Bell discussion NR\_Mob\_enh-Core

R2-2008828 NR DAPS capability corrections Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.2.0 0413 - F NR\_Mob\_enh-Core Withdrawn

R2-2008829 NR DAPS capability corrections Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2018 - F NR\_Mob\_enh-Core Withdrawn

[R2-2009273](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009273.zip) The supported combination among FRx/xDD CHO/CPC capabilities Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2009281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009281.zip) Clarification on the setting of FRx&xDD CHO&CPC capabilities Intel Corporation CR Rel-16 38.306 16.2.0 0423 - F NR\_Mob\_enh-Core

[R2-2009655](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009655.zip) Correction on CA-ParametersNR for DAPS handover NEC draftCR Rel-16 38.331 16.2.0 NR\_Mob\_enh-Core

[R2-2009783](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009783.zip) UE Capabilities for Intra-frequency DAPS Handover MediaTek Inc. discussion

[R2-2010292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010292.zip) Report of [Post111-e][921][DAPS] DAPS capability structure clarifications (Huawei) Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2010293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010293.zip) Clarification on NR DAPS UE capability Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0442 - F NR\_Mob\_enh-Core

[R2-2010296](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010296.zip) Clarification on CHO and CPC capabilities between different modes Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0443 - F NR\_Mob\_enh-Core

[R2-2010500](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010500.zip) Remaining open issues for DAPS capabilities Ericsson discussion

### 6.7.5 Other

Including corrections to DAPS that are NR-specific without equivalent LTE impacts

[R2-2009607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009607.zip) Release of mTRP operation before DAPS handover Samsung discussion Rel-16 NR\_Mob\_enh-Core

[R2-2009665](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009665.zip) Minor corrections to NR mobility enhancements Lenovo, Motorola Mobility CR Rel-16 38.331 16.2.0 2102 - F NR\_Mob\_enh-Core

[R2-2010415](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010415.zip) Correction on DAPS power configuration Google Inc. CR Rel-16 38.331 16.2.0 2218 - F NR\_Mob\_enh-Core

## 6.8 DC and CA enhancements

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI RP-200791, SR: RP-201218) R1 and R2 parts are 100% complete.

No documents should be submitted to 6.8. Please submit to 6.8.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Limit: 5 email threads

### 6.8.1 General and Stage-2 Corrections

Including incoming LSs rapporteur inputs, including corrections discussions going beyond a specific TS, cross group discussions.

R2-2008706 Reply LS on UL PC for NR-DC (R1-2007261; contact: Apple) RAN1 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

R2-2008736 Reply LS on power control for NR-DC (R4-2011721; contact: vivo) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2 Cc:RAN1

R2-2008744 LS response on measurement capability for EMR (R4-2012112; contact: Ericsson) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

R2-2008750 LS on EMR measurement requirements in NR (R4-2012297; contact: Ericsson) RAN4 LS in Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN2

R2-2009548 CR for 37.340 on power control for NR\_DC Nokia, Nokia Shanghai Bell, Samsung, Ericsson CR Rel-16 37.340 16.3.0 0235 - B LTE\_NR\_DC\_CA\_enh-Core

R2-2010018 Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 38.331 16.2.0 2161 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010019 Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 36.331 16.2.1 4492 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010020 Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 38.300 16.3.0 0312 - F LTE\_NR\_DC\_CA\_enh-Core Late

R2-2010021 Misc corrections for Rel-16 DCCA Ericsson CR Rel-16 36.300 16.3.0 1325 - F LTE\_NR\_DC\_CA\_enh-Core Late

### 6.8.2 Fast Scell activation

R2-2008920 Considerations on fast (de)active of Scell KDDI Corporation discussion

R2-2008927 Correction on RA upon BWP switching to dormant BWP Asia Pacific Telecom co. Ltd CR Rel-16 38.321 16.2.1 0901 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009549 Dormancy correction Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.0 0934 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009550 BWP support for dormancy Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2009573 Corrections on bwp-InactivityTimer Samsung CR Rel-16 38.321 16.2.1 0935 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010022 Timing of direct SCell activation upon RRC configuration Ericsson CR Rel-16 38.321 16.2.1 0956 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.3 Early measurement reporting

R2-2009352 Miscellaneous corrections on early measurement reporting in 38.331 CATT CR Rel-16 38.331 16.2.0 2056 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009353 Miscellaneous corrections on early measurement reporting in 36.331 CATT CR Rel-16 36.331 16.2.1 4460 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009551 Measurement applicability and validity Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.11.0 4468 - F LTE\_euCA-Core

R2-2009552 Measurement applicability and validity Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.2.1 4469 - F LTE\_euCA-Core, LTE\_NR\_DC\_CA\_enh-Core

R2-2009553 Measurement applicability and validity Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2090 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010023 Serving cell results for early measurements Ericsson CR Rel-16 38.331 16.2.0 2162 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010024 Early measurement requirements Ericsson discussion LTE\_NR\_DC\_CA\_enh-Core

R2-2010653 Reporting of dle/inactive measurement not obtained in the current cell Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4528 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010654 Reporting of dle/inactive measurement not obtained in the current cell Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2268 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.4 Other DCCA corrections

Including NR-NR DC, MCG SCell and SCG configuration with RRC resume, Fast MCG link recovery, and RRC corrections that doesn’t fit under the other headings.

Including outcome of [Post111-e][918][DCCA] SCell SMTC window for Unaligned CA (CMCC)

Including capability signalling based on agreements in RP-202030.

R2-2008968 Clarification of NR-DC with unaligned CA Qualcomm Incorporated discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2009354 Miscellaneous corrections for Rel-16 DCCA in 38.331 CATT CR Rel-16 38.331 16.2.0 2057 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009414 Correction on tdm-PatternConfig2 configuration upon MR-DC Release MediaTek Inc. CR Rel-16 38.331 16.2.0 2072 - F LTE\_NR\_DC\_CA\_enh-Core Withdrawn

R2-2009415 Correction on tdm-PatternConfig2 configuration upon MR-DC Release MediaTek Inc. CR Rel-16 36.331 16.2.1 4462 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010025 Missing fields for Toffset coordination Ericsson, Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2163 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010026 Correction on sk-counter in RRCResume Ericsson CR Rel-16 38.331 16.2.0 2164 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010027 Correction on p-UE-FR2 for NR-DC power control Ericsson, NTTDOCOMO CR Rel-16 38.331 16.2.0 2165 - F LTE\_NR\_DC\_CA\_enh-Core Revised

R2-2010028 Processing delay requirements for DLInformationTransferMRDC Ericsson CR Rel-16 38.331 16.2.0 2166 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010112 Correction on p-UE-FR2 for NR-DC power control Ericsson, NTTDOCOMO CR Rel-16 38.331 16.2.0 2165 1 F LTE\_NR\_DC\_CA\_enh-Core R2-2010027

R2-2010115 Remaining issues on Toffset for NR-DC power control Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2010116 Correction on SCG-related fields in RRCConnection Resume Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4495 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010117 Correction for fast MCG link recovery via SRB3 in NR-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2177 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010118 Processing delay requirements for RRC resume Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2178 - C LTE\_NR\_DC\_CA\_enh-Core

R2-2010119 Processing delay requirements for RRC resume Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4496 - C LTE\_NR\_DC\_CA\_enh-Core

R2-2010120 Miscellaneous corrections for DCCA Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4497 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010121 Corrections for resume with SCG Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2179 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010122 Correction for fast MCG link recovery in (NG)EN-DC Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2180 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010255 UE information transmission in LTE fast MCG recovery case SHARP Corporation discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2010256 Clarification on UE information transmission in fast MCG recovery case(36.331) SHARP Corporation CR Rel-16 36.331 16.2.1 4504 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010291 Correction on p-UE-FR2 in NR-DC power control vivo CR Rel-16 38.331 16.2.0 2201 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010340 Correction on p-UE-FR2 for NR-DC power control in FR2 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2207 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010378 Summary of [Post111-e][918][R16 DCCA] SCell SMTC window for Unaligned CA (CMCC) CMCC discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2010379 CR for Unaligned CA in TS 38.331 CMCC,MediaTek Inc. CR Rel-16 38.331 16.2.0 2212 - C LTE\_NR\_DC\_CA\_enh-Core

R2-2010380 CR for Unaligned CA in TS 38.306 CMCC,MediaTek Inc. CR Rel-16 38.306 16.2.0 0447 - C LTE\_NR\_DC\_CA\_enh-Core

R2-2010566 Clarification on ULInformationTransferMRDC Google Inc. CR Rel-16 38.331 16.2.0 2247 - F NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core

R2-2010647 Miscellaneous corrections for RRC Transfer procedure Samsung R&D Institute UK CR Rel-16 37.340 16.3.0 0237 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010650 Corrections on messages encapsulated in ULInformationTransferMRDC Samsung R&D Institute UK CR Rel-16 36.331 16.2.1 4527 - F LTE\_NR\_DC\_CA\_enh-Core

### 6.8.5 UE capabilities

R2-2009186 Correction to 36.306 on UE capability of direct SCell activation Qualcomm Incorporated, Ericsson CR Rel-16 36.306 16.2.0 1790 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009187 Correction to 36.331 on UE capability of direct SCell activation Qualcomm Incorporated, Ericsson CR Rel-16 36.331 16.2.1 4456 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009437 Capability for beam level NR early measurement reporting MediaTek Inc. CR Rel-16 36.331 16.2.1 4463 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009438 Capability for beam level NR early measurement reporting MediaTek Inc. CR Rel-16 36.306 16.2.0 1791 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2009554 Direct Scell activation capability Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2009666 Adding missing field descriptions of Multi-RAT DC and CA enhancements capabilities Lenovo, Motorola Mobility CR Rel-16 36.331 16.2.1 4474 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010029 Cell group filtering for NR-DC Ericsson discussion LTE\_NR\_DC\_CA\_enh-Core

R2-2010030 Clarification on cross-carrier A-CSI triggering capability Ericsson CR Rel-16 38.306 16.2.0 0437 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010031 Correction on early measurement capabilities Ericsson CR Rel-16 36.306 16.2.0 1795 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010032 Correction on early measurement capabilities Ericsson CR Rel-16 36.331 16.2.1 4493 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010114 UE capability of direct E-UTRAN SCG SCell activation Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2010341 Adding UE capability for beam level early measurement reporting (36331) Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4510 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010342 Adding UE capability for beam level early measurement reporting (36306) Huawei, HiSilicon CR Rel-16 36.306 16.2.0 1797 - F LTE\_NR\_DC\_CA\_enh-Core

R2-2010343 Clarification on UE capability of cross-carrier scheduling with different numerologies Huawei, HiSilicon discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

R2-2010593 MCG and SCG differentiation in asynchronous NR-DC Samsung Electronics discussion Rel-16

## 6.9 UE Power Saving in NR

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: RP-200494; SR: RP-200913).

Limit: 3-4 email threads

### 6.9.1 General and Stage-2 corrections

Including incoming LSs, rapporteur inputs, etc

[R2-2008726](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008726.zip) Reply LS on NR SCG release for power saving (R3-205764; contact: ZTE) RAN3 LS in Rel-16 NR\_UE\_pow\_sav-Core To:RAN2

[R2-2008745](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008745.zip) Reply LS on RRM relaxation in power saving (R4-2012122; contact: Huawei) RAN4 LS in Rel-16 NR\_UE\_pow\_sav-Core To:RAN2

### 6.9.2 User plane Corrections

[R2-2008953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008953.zip) MAC CR for specification redundance between MAC and PHY Xiaomi Communications CR Rel-16 38.321 16.2.1 0902 - F NR\_UE\_pow\_sav-Core

[R2-2009691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009691.zip) Correction on DCP for power sving vivo CR Rel-16 38.321 16.2.1 0937 - F NR\_UE\_pow\_sav-Core

### 6.9.3 Control plane Corrections

[R2-2009928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009928.zip) Correction on RRC state preference - Opt 1 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2144 - F NR\_UE\_pow\_sav-Core

[R2-2009929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009929.zip) Correction on RRC state preference – Opt 2 Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2145 - F NR\_UE\_pow\_sav-Core

[R2-2009079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009079.zip) Duplicated capture for RRM relaxation in RAN2 and RAN4 vivo discussion Rel-16 NR\_UE\_pow\_sav-Core

[R2-2009080](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009080.zip) Summary of RRM relaxation behaviors vivo, CATT discussion Rel-16 NR\_UE\_pow\_sav-Core R2-2008569

[R2-2009081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009081.zip) [Draft] LS to RAN4 on RRM measurement relaxation in power saving vivo LS out Rel-16 NR\_UE\_pow\_sav-Core To:RAN4

[R2-2009082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009082.zip) Correction on field description of highPriorityMeasRelax vivo CR Rel-16 38.331 16.2.0 2032 - F NR\_UE\_pow\_sav-Core

[R2-2009370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009370.zip) Correction on cell reselection within 1 hour measurement interval CATT CR Rel-16 38.304 16.2.0 0189 - F NR\_UE\_pow\_sav-Core Withdrawn

[R2-2009462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009462.zip) UE assistance information for DRX preference on secondary DRX group - Option1 OPPO, Ericsson CR Rel-16 38.331 16.2.0 2075 - F NR\_UE\_pow\_sav-Core

[R2-2009463](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009463.zip) UE assistance information for DRX preference on secondary DRX group - Option2 OPPO, Ericsson, Qualcomm, Apple, Xiaomi CR Rel-16 38.331 16.2.0 2076 - F NR\_UE\_pow\_sav-Core

[R2-2009952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009952.zip) Way forward relaxed RRM requirements in RAN2 and RAN4 Ericsson discussion Rel-16 NR\_newRAT-Core

[R2-2010243](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010243.zip) Correction on otherConfig for RRCResume Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2193 - F NR\_UE\_pow\_sav-Core

[R2-2010595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010595.zip) Correction on RRM relaxation Samsung Electronics CR Rel-16 38.304 16.2.0 0193 - F NR\_UE\_pow\_sav-Core

[R2-2010597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010597.zip) Correction on cell reselection within 1 hour measurement interval CATT CR Rel-16 38.304 16.2.0 0194 - F NR\_UE\_pow\_sav-Core

## 6.10 SON MDT support for NR

(NR\_SON\_MDT-Core; leading WG: RAN3; REL-16; started: Jun 19; Completed June 20; WID: RP-191776; SR RP-200773). Documents in this agenda item will be handled in a break out session

Limit: 4-5 email threads

### 6.10.1 General and stage-2 corrections

Including incoming LSs, TS 37.320 corrections

[R2-2008764](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008764.zip) LS Reply on QoS Monitoring for URLLC (S5-204537; contact: Intel) SA5 LS in Rel-16 To:RAN3, SA2 Cc:RAN2

[R2-2008765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008765.zip) Reply LS on the user consent for trace reporting (S5-204542; contact: Huawei) SA5 LS in Rel-16 TEI16 To:RAN2, RAN3, SA3

[R2-2009419](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009419.zip) User consent principles Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 NR\_SON\_MDT-Core

[R2-2009420](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009420.zip) Draft reply LS on the user consent for trace reporting Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_SON\_MDT-Core To:SA5, RAN3, SA3

[R2-2009679](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009679.zip) Corrections to TS 37.320 vivo CR Rel-16 37.320 16.2.0 0091 - F NR\_SON\_MDT-Core

[R2-2010039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010039.zip) Editorial Corrections Ericsson, Nokia , CMCC CR Rel-16 37.320 16.2.0 0092 - F NR\_SON\_MDT-Core

[R2-2010040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010040.zip) On end of measurement collection period related to WLAN and BT measurements Ericsson CR Rel-16 37.320 16.2.0 0093 - F NR\_SON\_MDT-Core

R2-2010398 Summary for AI 6.10.1 on General and stage-2 corrections CMCC discussion Rel-17 NR\_SON\_MDT-Core Late

[R2-2010408](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010408.zip) Clarification on Area Checking Samsung CR Rel-16 37.320 16.2.0 0095 - F NR\_SON\_MDT-Core

[R2-2010611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010611.zip) On time stamp inclusion for event triggered logged MDT Ericsson CR Rel-16 37.320 16.2.0 0096 - F NR\_SON\_MDT-Core

[R2-2010614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010614.zip) On Time To Trigger (TTT) configuration associated to L1 event in logged MDT Ericsson CR Rel-16 37.320 16.2.0 0097 - F NR\_SON\_MDT-Core

[R2-2010690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010690.zip) LS on Clarification on URLLC QoS Monitoring (S2-2007825; contact: Huawei) SA2 LS in Rel-16 5G\_URLLC To:RAN3, CT4 Cc:SA5, RAN2

### 6.10.2 TS 38.314 corrections

[R2-2008919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008919.zip) Corrections for L2 Measurement CATT CR Rel-16 38.314 16.1.0 0004 - F NR\_SON\_MDT-Core

[R2-2009681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009681.zip) Miscellaneous corrections to TS 38.314 vivo CR Rel-16 38.314 16.1.0 0005 - F NR\_SON\_MDT-Core

[R2-2010038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010038.zip) On clarification related to delay measurements in split RAN architecture Ericsson CR Rel-16 38.314 16.1.0 0006 - F NR\_SON\_MDT-Core

[R2-2010041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010041.zip) Miscellaneous corrections Ericsson, CMCC CR Rel-16 38.314 16.1.0 0007 - F NR\_SON\_MDT-Core

[R2-2010042](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010042.zip) On the usage of #ActiveUEs in inter node messages Ericsson CR Rel-16 38.314 16.1.0 0008 - F NR\_SON\_MDT-Core

[R2-2010191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010191.zip) Discussion on average Uu delay measurement for L2M Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2010192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010192.zip) Discussion on D1 measurement for L2M Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

R2-2010193 Correction on TS 38.314 on latency measurements Huawei, HiSilicon CR Rel-16 38.314 16.1.0 0009 - F NR\_SON\_MDT-Core Withdrawn

R2-2010363 Summary for AI 6.10.2 on TS 38.314 corrections CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2010610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010610.zip) On EUTRA related L2 measurements for EN-DC Ericsson discussion

[R2-2010612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010612.zip) On the clarification of end time of UL PDCP Packet Average Delay Ericsson CR Rel-16 38.314 16.1.0 0010 - F NR\_SON\_MDT-Core

[R2-2010656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010656.zip) Introduction of MIMO layer based PRB usage measurement CMCC discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2010663](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010663.zip) Introduction of MIMO layer based PRB usage measurement CMCC CR Rel-16 38.314 16.1.0 0011 - B NR\_SON\_MDT-Core Late

### 6.10.3 RRC corrections

[R2-2008839](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008839.zip) Clarification for CEF Report CATT discussion Rel-16 NR\_SON\_MDT-Core

[R2-2008840](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008840.zip) Corrections for CEF Report CATT CR Rel-16 38.331 16.2.0 2019 - F NR\_SON\_MDT-Core

[R2-2008841](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008841.zip) Correction on RLF Report for Re-connection CATT CR Rel-16 38.331 16.2.0 2020 - F NR\_SON\_MDT-Core

[R2-2008928](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008928.zip) Correction on RLF Report Content Handover from NR to LTE Failure MediaTek Inc. CR Rel-16 38.331 16.2.0 2024 - F NR\_SON\_MDT, NR\_SON\_MDT-Core, e\_5GMDT, NR\_SON\_MDT-UEConTest

R2-2009421 Clarification on UE logging procedure for event-based triger Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2143 - F NR\_SON\_MDT-Core Withdrawn

[R2-2009521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009521.zip) Correction on RLF Report Apple CR Rel-16 38.331 16.2.0 2086 - F NR\_SON\_MDT-Core

[R2-2009522](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009522.zip) Correction on RLF Report Apple CR Rel-16 36.331 16.2.1 4465 - F NR\_SON\_MDT-Core

[R2-2009677](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009677.zip) Correction to TS 36.331 on logged MDT configuration vivo CR Rel-16 36.331 16.2.1 4475 - F NR\_SON\_MDT-Core

[R2-2009678](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009678.zip) Correction to TS 38.331 on logged MDT configuration vivo CR Rel-16 38.331 16.2.0 2103 - F NR\_SON\_MDT-Core

[R2-2009680](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009680.zip) Miscellaneous corrections to TS 38.331 on SON and MDT vivo CR Rel-16 38.331 16.2.0 2104 - F NR\_SON\_MDT-Core

[R2-2009882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009882.zip) Correction to MDT Google Inc. CR Rel-16 38.331 16.2.0 2141 - F NR\_SON\_MDT-Core

[R2-2010036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010036.zip) On miscellaneous corrections Ericsson CR Rel-16 38.331 16.2.0 2168 - F NR\_SON\_MDT-Core

[R2-2010037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010037.zip) On overriding prevention of signalling based MDT with management based MDT Ericsson discussion

[R2-2010043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010043.zip) On ra-purpose field description Ericsson CR Rel-16 38.331 16.2.0 2169 - F NR\_SON\_MDT-Core

[R2-2010044](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010044.zip) Configuration of WLAN BT and Sensor for CEF reporting Ericsson CR Rel-16 38.331 16.2.0 2170 - F NR\_SON\_MDT-Core

[R2-2010082](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010082.zip) Logged MDT support for non-SIB4 frequencies (early measurments) Samsung Telecommunications discussion NR\_SON\_MDT-Core

[R2-2010083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010083.zip) Clarification on logged MDT for non-SIB4 frequencies Samsung Telecommunications CR Rel-16 38.331 16.2.0 1805 1 F NR\_SON\_MDT-Core R2-2007225

[R2-2010089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010089.zip) Ambiguity on retrieval of WLAN and BT location info for Logged MDT Samsung Telecommunications discussion Rel-16 NR\_SON\_MDT-Core

[R2-2010194](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010194.zip) Discussion on user consent Huawei, HiSilicon discussion Rel-16 NR\_SON\_MDT-Core

[R2-2010195](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010195.zip) Correction on user consent for TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2186 - F NR\_SON\_MDT-Core

[R2-2010196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010196.zip) Correction on user consent for TS 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4499 - F NR\_SON\_MDT-Core

[R2-2010197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010197.zip) Correction on user consent for TS 37.320 Huawei, HiSilicon CR Rel-16 37.320 16.2.0 0094 - F NR\_SON\_MDT-Core

[R2-2010198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010198.zip) Draft reply LS on user consent Huawei LS out Rel-16 NR\_SON\_MDT-Core To:SA5 Cc:RAN3, SA3

[R2-2010199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010199.zip) Correction on the release of obtainCommonLocation Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2187 - F NR\_SON\_MDT-Core

[R2-2010200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010200.zip) Correction on Inter-RAT SON for 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2188 - F NR\_SON\_MDT-Core

[R2-2010201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010201.zip) Correction on Inter-RAT SON for 36.331 Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4500 - F NR\_SON\_MDT-Core

[R2-2010221](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010221.zip) Summary on 6.10.3 RRC corrections Huawei discussion Rel-16 NR\_SON\_MDT-Core Late

[R2-2010327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010327.zip) Correction on timer T316 handling Samsung Electronics Co., Ltd CR Rel-16 36.331 16.2.1 4509 - F NR\_SON\_MDT-Core

[R2-2010410](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010410.zip) Miscellaneous Correction on MDT Samsung CR Rel-16 38.331 16.2.0 2216 - F NR\_SON\_MDT-Core

[R2-2010581](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010581.zip) Correction for clearing VarRLF-Report regarding T316 Quectel draftCR Rel-16 36.331 16.2.1 C NR\_SON\_MDT-Core

R2-2010582 Correction for clearing VarRLF-Report regarding T316 Quectel draftCR Rel-16 36.331 16.2.1 C NR\_SON\_MDT-Core Withdrawn

[R2-2010590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010590.zip) Correction on RA report Samsung Electronics CR Rel-16 38.331 16.2.0 2252 - F NR\_SON\_MDT-Core

[R2-2010591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010591.zip) Correction on RLF report Samsung Electronics CR Rel-16 38.331 16.2.0 2253 - F NR\_SON\_MDT-Core

[R2-2010603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010603.zip) Clarification on location configuration in logged MDT ZTE Corporation, Sanechips discussion Rel-16

[R2-2010604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010604.zip) draftCR on location related configuration for logged MDT Alt1 ZTE Corporation, Sanechips draftCR Rel-16 38.331 16.2.0 F NR\_SON\_MDT-Core

[R2-2010605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010605.zip) draftCR on location related configuration for logged MDT Alt2 ZTE Corporation, Sanechips draftCR Rel-16 38.331 16.2.0 F NR\_SON\_MDT-Core

[R2-2010606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010606.zip) Correction to 38331 on RA report ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2255 - F NR\_SON\_MDT-Core

[R2-2010607](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010607.zip) Correction to 38331 on delay measurement ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2256 - F NR\_SON\_MDT-Core

[R2-2010609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010609.zip) Changes related to RAReport and logged MDT report contents NBC change Ericsson CR Rel-16 38.331 16.2.0 2258 - C NR\_SON\_MDT-Core

[R2-2010613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010613.zip) On mobility history information associated to Connected mode changes Ericsson CR Rel-16 38.331 16.2.0 2259 - F NR\_SON\_MDT-Core

[R2-2010615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010615.zip) An indication of reconfiguration with sync type in RLF report Ericsson CR Rel-16 38.331 16.2.0 2260 - F NR\_SON\_MDT-Core

[R2-2010616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010616.zip) On the lack measResultServingCell availability in Any Cell Selection state Ericsson discussion

[R2-2010617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010617.zip) On Neighbour cells measurements in logged MDT Ericsson discussion

[R2-2010618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010618.zip) Resolving issues related to PLMN identity list in RAReport Ericsson CR Rel-16 38.331 16.2.0 2261 - F NR\_SON\_MDT-Core

[R2-2010619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010619.zip) Changes related to RAReport and logged MDT report contents BC change Ericsson CR Rel-16 38.331 16.2.0 2262 - C NR\_SON\_MDT-Core

[R2-2010662](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010662.zip) Correction on RLF Report for Re-connection CATT CR Rel-16 36.331 16.2.0 4529 - F NR\_SON\_MDT-Core

## 6.11 2-step RACH for NR

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: RP-200085; SR: RP-200622).

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### 6.11.1 General and Stage-2 Corrections

### 6.11.2 User plane corrections

[R2-2009794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009794.zip) Clarification on the PRACH occasion frequency domain index Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0943 - F NR\_2step\_RACH-Core

[R2-2009969](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009969.zip) 2-step RA parameter corrections Ericsson CR Rel-16 38.321 16.2.1 0953 - F NR\_2step\_RACH-Core

[R2-2010402](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010402.zip) Correction on BSR for two-step RA Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0981 - F NR\_2step\_RACH-Core

[R2-2010405](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010405.zip) Correction on DELTA\_PREAMBLE for 2-step RA Huawei, HiSilicon CR Rel-16 38.321 16.2.1 0982 - F NR\_2step\_RACH-Core

### 6.11.3 Control plane corrections

[R2-2009968](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009968.zip) 2-step RA parameter corrections Ericsson CR Rel-16 38.331 16.2.0 2149 - F NR\_2step\_RACH-Core

[R2-2010403](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010403.zip) Correction on msgA-PUSCH-Config Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2213 - F NR\_2step\_RACH-Core

[R2-2010404](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010404.zip) Correction on msgA-DMRS-Config Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2214 - F NR\_2step\_RACH-Core

## 6.12 NR Other Control Plane WIs

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: RP-190713)

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: RP-191088)

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: RP-200122)

Documents in this agenda item will be handled in a break out session

Limit: 3 email threads

[R2-2008753](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008753.zip) Reply LS on human-readable network name (HRNN) (CP-201361/S1-203197) (S1-203272; contact: vivo) SA1 LS in Rel-16 To:SA2, CT, CT1, RAN2 Cc:CT4

[R2-2008762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008762.zip) Reply LS on Clarification of CAG only UE accessing EPS network (S2-2007809; contact: Oppo) SA2 LS in Rel-16 Vertical\_LAN To:CT1 Cc:RAN2

[R2-2009065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009065.zip) Considerations on parameter selection for shared cells Nokia, Nokia Shanghai Bell discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2009066](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009066.zip) Corrections for PNI-NPN related parameter selection Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2028 - F NG\_RAN\_PRN-Core

[R2-2009625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009625.zip) Further Clarification on the Forbidden Tracking Areas ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2009626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009626.zip) Further Clarification on the NPN-only cell ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2009628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009628.zip) CR on Forbidden Tracking Areas ZTE Corporation, Sanechips CR Rel-16 38.304 16.2.0 0190 - F NG\_RAN\_PRN-Core

[R2-2009627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009627.zip) CR on non-CAG-capable UE ZTE Corporation, Sanechips CR Rel-16 38.300 16.3.0 0309 - F NG\_RAN\_PRN-Core

[R2-2009629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009629.zip) CR on NPN-only Cell ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2098 - F NG\_RAN\_PRN-Core

[R2-2010015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010015.zip) Selecting index for PLMN, SNPN and UAC parameters Ericsson discussion

[R2-2010016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010016.zip) Aligning use of PNI-NPN in RAN2 specs to SA2 specs Ericsson discussion

[R2-2010355](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010355.zip) Discussion on selected CAG Huawei, HiSilicon discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2010033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010033.zip) Clarification on the total number of CAG identifiers Lenovo, Motorola Mobility CR Rel-16 38.331 16.2.0 2167 - F NG\_RAN\_PRN-Core

[R2-2010356](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010356.zip) Discussion on the selection between PLMN and PNI-NPNs Huawei, HiSilicon discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2010630](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010630.zip) 38.300 Correction on the SNPN-only cell vivo CR Rel-16 38.300 16.3.0 0320 - F NG\_RAN\_PRN-Core

[R2-2010631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010631.zip) 38.300 Correction on CAG information vivo CR Rel-16 38.300 16.3.0 0321 - F NG\_RAN\_PRN-Core

[R2-2010632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010632.zip) 38.331 Clarification on the release of RRC connection vivo CR Rel-16 38.331 16.2.0 2264 - F NG\_RAN\_PRN-Core

[R2-2010496](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010496.zip) Clarification on the selection of suitable cell Huawei, HiSilicon CR Rel-16 38.304 16.2.0 0192 - F NG\_RAN\_PRN-Core

[R2-2010259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010259.zip) Dynamic UMTS Radio Capability impact on SRVCC and RACS Huawei, HiSilicon, Vodafone, China Unicom CR Rel-16 38.300 16.3.0 0317 - F SRVCC\_NR\_to\_UMTS-Core, RACS-RAN-Core

[R2-2010407](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010407.zip) Clarification on SRVCC handover Google Inc. CR Rel-16 38.331 16.2.0 2215 - F SRVCC\_NR\_to\_UMTS-Core

## 6.13 NR eMIMO

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: RP-200474; R2 part completed)

Documents in this agenda item will be handled in a break out session

Limit: 2 email threads

[R2-2009905](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009905.zip) BFR on SCell ZTE Corporation, Sanechips, Nokia (Rapporteur) CR Rel-16 38.300 16.3.0 0310 - F NR\_eMIMO-Core

### 6.13.1 User plane corrections

[R2-2009098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009098.zip) Correction to parameter list for beam failure recovery procedure Samsung Electronics Co., Ltd CR Rel-16 38.321 16.2.1 0907 - F NR\_eMIMO-Core

[R2-2009795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009795.zip) BFR triggering with candidate beam search Nokia, Nokia Shanghai Bell, Ericsson, ZTE discussion Rel-16 NR\_eMIMO-Core

[R2-2009796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009796.zip) Clarification on the BFR trigger upon candidate search Nokia, Nokia Shanghai Bell, Ericsson, ZTE CR Rel-16 38.321 16.2.1 0944 - F NR\_eMIMO-Core

[R2-2009797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009797.zip) Draft LS on BFR requirements time reference Nokia LS out Rel-16 NR\_eMIMO-Core To:RAN WG4

[R2-2009903](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009903.zip) 38.321 Correction on Enhanced PUCCH Spatial Relation ActivationDeactivation MAC CE ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0947 - F NR\_eMIMO-Core

[R2-2009904](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009904.zip) Miscellaneous on 38.321 for BFR and BFR MAC CE ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0948 - F NR\_eMIMO-Core

[R2-2010009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010009.zip) Correction on BFR MAC CE generation Qualcomm Incorporated, Samsung CR Rel-16 38.321 16.2.1 0885 1 F NR\_eMIMO-Core R2-2008219

[R2-2010013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010013.zip) Discussion on Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE on multiple CC case Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

[R2-2010014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010014.zip) Correction on Enhanced TCI States Activation/Deactivation for UE-specific PDSCH MAC CE Qualcomm Incorporated CR Rel-16 38.321 16.2.1 0955 - F NR\_eMIMO-Core

[R2-2010494](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010494.zip) Correction to bitmap length determination in MAC CEs for BFR Fujitsu CR Rel-16 38.321 16.2.1 0991 - F NR\_eMIMO-Core

[R2-2010628](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010628.zip) Multi-CC simultaneous TCI activation with multi-TRP/panel transmission Ericsson discussion Rel-16 NR\_eMIMO-Core

[R2-2010634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010634.zip) Reply LS on multi-CC simultaneous TCI activation with multi-TRP/panel transmission Ericsson LS out Rel-16 NR\_eMIMO-Core To:RAN1

[R2-2010637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010637.zip) Correction for CC list operation for TCI state update MAC CE Ericsson, Samsung CR Rel-16 38.321 16.2.1 0994 - F NR\_eMIMO-Core

### 6.13.2 Control plane corrections

[R2-2009169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009169.zip) Clarification to DCI format 1-2 TDRA Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2038 - F NR\_eMIMO-Core

[R2-2009170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009170.zip) Stage-2 description of multi-TRP Nokia (Rapporteur) CR Rel-16 38.300 16.3.0 0300 - F NR\_eMIMO-Core

[R2-2010011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010011.zip) Correction on BFD resource on SCell Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2159 - F NR\_eMIMO-Core

[R2-2010126](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010126.zip) Correction on HARQ ACK/NACK feedback configuration Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2181 - F NR\_eMIMO-Core

[R2-2010127](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010127.zip) Correction on slot based repetition Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2182 - F NR\_eMIMO-Core

[R2-2010625](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010625.zip) On number for supported CORESETs Ericsson discussion Rel-16 NR\_eMIMO-Core

[R2-2010636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010636.zip) Clarification for multiDCI-MultiTRP-r16 applicability Ericsson CR Rel-16 38.306 16.2.0 0469 - F NR\_eMIMO-Core

R2-2010655 Correction on slot based repetition Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0470 - F NR\_eMIMO-Core Late

## 6.14 NR Other R1 WIs

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: RP-191997;)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: RP-191584)

(R1 Led NR TEI16, Other R1 led items)

Documents in this agenda item will be handled in a break out session

Limit: 5 email threads

[R2-2008705](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008705.zip) Reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI (R1-2007187; contact: ZTE) RAN1 LS in Rel-16 NR\_CLI\_RIM To:RAN3 Cc:RAN2

[R2-2008729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008729.zip) Full slot formats support in TDD UL-DL configuration (R3-205794; contact: Qualcomm) RAN3 LS in Rel-16 NR\_CLI\_RIM To:RAN1, RAN2

[R2-2010172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010172.zip) DRAFT Reply LS on Full slot formats support in TDD UL-DL configuration Qualcomm Incorporated LS out Rel-16 NR\_CLI\_RIM To:RAN3 Cc:RAN1

[R2-2010521](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010521.zip) Supported slot formats in RAN2 specifications Ericsson discussion

### 6.14.1 User plane corrections

### 6.14.2 Control plane corrections

[R2-2008825](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008825.zip) Missing configuration for half-DuplexTDD-CA-SameSCS-r16 Nokia, Nokia Shanghai Bell, Ericsson CR Rel-16 38.331 16.2.0 2017 - B TEI16

[R2-2008826](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008826.zip) Missing configuration for half-DuplexTDD-CA-SameSCS-r16 Nokia, Nokia Shanghai Bell LS out TEI16 To:RAN1

DISCUSSION MAIN SESSION AI 6.1.1 Mon NOV 2

- The two documents above were presented, as the missing parameter is required to complete parameter name consolidation and LS to R1 in main session. Chair think we don't agree these CR + LS now as they were listed for another session.

- Huawei would like time to check the CR.

- Chair: The RRC Parameter Name is agreeable, but as Huawei want to check, the parent IE can anyway not be agreed immediately. Parameter name LS can wait a bit more.

[R2-2010134](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010134.zip) Discussion on RAN3 LS on full slot format support Huawei, HiSilicon discussion Rel-16 NR\_CLI\_RIM-Core

## 6.15 NR Other R4 WIs

(NR\_HST, NR\_RRM\_enh-Core, NR\_RF\_FR1, NR\_RF\_FR2\_req\_enh, NR\_n66\_BW, LTE\_NR\_B41\_Bn41\_PC29dBm-Core, NR\_CSIRS\_L3meas, R4 Led NR TEI16, other R4 led items)

Limit: 6 email threads

* [AT112-e][022][R4 NR16] MPE (Nokia)

Treat R2-2009690, R2-2008910, R2-2009164, R2-2009906, R2-2010289, R2-2009166, R2-2010515, R2-2009165, R2-2010516

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

**MPE**

MAC

[R2-2009690](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009690.zip) Miscellaneous correction on MPE reporting to 38.321 LG Electronics Inc., Ericsson, Apple CR Rel-16 38.321 16.2.1 0936 - F NR\_RF\_FR2\_req\_enh

[R2-2008910](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008910.zip) Correction of MPE reporting field name Lenovo, Motorola Mobility CR Rel-16 38.321 16.2.1 0900 - F NR\_RF\_FR2\_req\_enh

[R2-2009164](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009164.zip) Corrections to MPE reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.2.1 0909 - F NR\_RF\_FR2\_req\_enh

MAC - relative threshold trigger

[R2-2009906](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009906.zip) 38.321 Correction on MPE reporting triggered by the relative threshold ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.1 0949 - F NR\_RF\_FR2\_req\_enh

[R2-2010289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010289.zip) 38.331 Correction on relative threshold for MPE configuration ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2200 - F NR\_RF\_FR2\_req\_enh

Stage 2

[R2-2009166](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009166.zip) Stage-2 description of MPE reporting Nokia (Rapporteur) CR Rel-16 38.300 16.3.0 0299 - F NR\_RF\_FR2\_req\_enh

[R2-2010515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010515.zip) Introduction of MPE reporting Ericsson CR Rel-16 38.300 16.3.0 0319 - F NR\_RF\_FR2\_req\_enh

Dual Connectivity and Handover

[R2-2009165](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009165.zip) Corrections to inter-node signalling for MPE reporting Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2037 - F NR\_RF\_FR2\_req\_enh

[R2-2010516](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010516.zip) MPE for EN-DC, NE-DC, NR-DC and DAPS Ericsson discussion

**UL 7.5kHz shift**

* [AT112-e][023][R4 NR16] UL 7.5kHz Shift (Apple)

Treat R2-2008740, R2-2009466, R2-2009467, R2-2009468, R2-2009469, R2-2009470, R2-2009471, R2-2009700, R2-2009701, R2-2010227

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

R2-2011046

[R2-2008740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008740.zip) LS on clarification for the UE behaviour when UL 7.5kHz shift is optionally supported by a UE (R4-2011746; contact: Apple) RAN4 LS in Rel-16 NR\_n48\_LTE\_48\_coex-Core To:RAN2

* [023] Noted

[R2-2009466](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009466.zip) Discussion on UL 7.5kHz shift in NR TDD bands Apple discussion Rel-16 TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40

* [023] Noted

[R2-2010227](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010227.zip) Discussion on supporting 7.5KHz shift for TDD bands Huawei, HiSilicon discussion Rel-16 NR\_n48\_LTE\_48\_coex-Core

* [023] Noted

[R2-2009467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009467.zip) UE support on UL 7.5kHz shift in TDD bands – Alt 1 Apple CR Rel-16 38.331 16.2.0 2077 - F TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40

[R2-2009468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009468.zip) UE support on UL 7.5kHz shift in TDD bands – Alt 2 Apple CR Rel-16 38.331 16.2.0 2078 - F TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40

[R2-2009469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009469.zip) UE support on UL 7.5kHz shift in TDD bands – Alt 3 Apple CR Rel-16 38.331 16.2.0 2079 - F TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40

[R2-2009470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009470.zip) UE support on UL 7.5kHz shift in TDD bands Apple CR Rel-16 38.306 16.2.0 0428 - F TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40

[R2-2009471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009471.zip) Draft response LS on UE capability for UL 7.5kHz shift in TDD bands Apple LS out Rel-16 TEI16, NR\_n48\_LTE\_48\_coex-Core, DSS\_LTE\_B38\_NR\_Bn38-Core, DSS\_LTE\_B40\_NR\_Bn40 To:RAN4

[R2-2009701](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009701.zip) UE behaviour when UL 7.5KHz shift is not supported Ericsson CR Rel-16 38.331 16.2.0 2107 - F NR\_n48\_LTE\_48\_coex-Core

=> revised

[R2-2010983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010983.zip) UE behaviour when UL 7.5KHz shift is not supported Ericsson CR Rel-16 38.331 16.2.0 2107 1 F NR\_n48\_LTE\_48\_coex-Core

Withdrawn:

[R2-2009700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009700.zip) UE capability for UL 7.5KHz shift in NR TDD with 30KHz SCS Ericsson CR Rel-16 38.306 16.2.0 0433 - F NR\_n48\_LTE\_48\_coex-Core

* [AT112-e][024][R4 NR16] DC Location (Apple)

Determine how to report, what to report, which scenarios to support etc. Treat R2-2010673, R2-2009167, R2-2009168, R2-2010171, R2-2010048, R2-2010228, R2-2009518, R2-2010409, R2-2009371, R2-2010471, R2-2009306

Intended outcome: Determine agreeable parts, Report. For agreeable parts, agreed CRs, and a reply LS.

Deadline: Intermediate deadline(s) by Rapporteur, Final: EOM (can come back on-line dep on progress)

**DC location**

Kick-off on-line first

[R2-2010673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010673.zip) LS on additional DC location reporting for intra-band UL CA (R4-2011906; contact: Qualcomm) RAN4 LS in Rel-16 NR\_RF\_FR1-Core [R2-2008737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008737.zip) To:RAN1, RAN2

DISCUSSION On-Line

- QC think we should discuss feasibility first before going into solutions.

- Apple suggest CB on Monday.

- Huawei think a major difference is whether we use RRC or MAC CE solution. Think R4 is working on another CR.

- QC think we need a solution eventually, not just replying to R4 questions.

- Intel think we need to follow RP guidance and do a RRC based signalling solution.

- MTK also think there are two directions, DCI based trigger and RRC based trigger but the DCI based was precluded by RP, so we should use RRC.

- Oppo think the key is whether UE report all possible DC location info or just one. Think we should not only restrict to 2 CCs.

- Ericsson also support RRC solution. Think the second approach is want R4 wanted but gave the first as an alternative

- LG also support RRC based signalling, and think this is feasible. We can ask R4 about more details. Think we should be careful to not say everything is feasible.

- Samsung support RRC, and think just extending current is not sufficiently scalable.

- Nokia think majority prefers RRC, and think MAC raises more questions. R4 are still working on this.

- Apple wonder if companies that want to go with RRC if we then also restrict to 2 CCs. Could also ask this to R4 if we ask R4.

- Apple think a MAC CE solution would report just one value, and this is future proof. This goes in the direction of O1 from R4.

- Intel think there are concerns about both solutions, RRC due to signalling overhead, but RP also restricted the requirement to 2CCs, and to be forward compatible.

- Nokia hopes that R4 will conclude this is possible to derive from UE caps.

- Chair: a majority seems to want to use RRC.

- Nokia want to clarify that the requirement is min 2 UL CC per UE (NOT 2 per FR1 + 2 per FR2). Chair: It seems everyone has this understanding.

* LS is Noted

[R2-2009306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009306.zip) DC location information reporting Intel Corporation discussion Rel-16 NR\_RF\_FR1-Core

Move from 6.1.2

[R2-2010171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010171.zip) DC location reporting for intra-band UL CA Qualcomm Incorporated discussion Rel-16 NR\_RF\_FR1-Core

[R2-2010409](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010409.zip) Discussion on support of additional DC location reporting for intra-band UL CA Samsung Electronics Co., Ltd discussion Rel-16 TEI16

[R2-2010048](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010048.zip) DC location reporting for intra-band UL CA Ericsson discussion Rel-16

DISCUSSION on-line, Parts of the 4 docs above

- Ericsson think that Network request with details on what to report makes RRC solution future proof.

* We use RRC, Continue by email

[R2-2009167](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009167.zip) DC location reporting for UL CA Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_RF\_FR1-Core

[R2-2009168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009168.zip) Draft LS reply on DC location reporting Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_RF\_FR1-Core To:RAN1, RAN4

[R2-2010228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010228.zip) On the signaling for additional DC location reporting Huawei, HiSilicon discussion Rel-16 NR\_RF\_FR1-Core

[R2-2009518](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009518.zip) Dynamic Reporting of Tx DC Location for UL CA Apple discussion Rel-16 NR\_RF\_FR1-Core

[R2-2009371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009371.zip) Discussion on DC location reporting for intra-band UL CA CATT discussion Rel-16

[R2-2010471](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010471.zip) Discussion on additional DC location reporting for intra-band UL CA OPPO discussion Rel-16 NR\_RF\_FR1-Core

**CSI-RS mobility**

* [AT112-e][025][R4 NR16] CSI-RS for Mobility (Huawei)

Treat R2-2008749, R2-2010585, R2-2010586, R2-2009775, R2-2009776, R2-2009777, R2-2009365,

Intended outcome: Determine agreeable parts. For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

[025] DECISIONS

* [025] Add the UE capability *increasedNumberofCSIRSPerMO-r16* as per RAN1 agreements.
* [025] There’s no need to modify the RAN2 signalling related to CSI-RS resources (for L3 mobility) configuration and reporting.
* [025] Update the field description of *csi-rs-ResourceList-Mobility* to include the new UE capability (taking ZTE’s comments into account).
* [025] Do not extend the value range *maxNumberCSI-RS-RRM-RS-SINR*.
* [025] Do not send a reply LS to RAN4.

[R2-2008749](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008749.zip) LS on number of configurable CSI-RS resources per MO (R4-2012291; contact: Huawei) RAN4 LS in Rel-16 NR\_CSIRS\_L3meas-Core To:RAN1, RAN2

* [025] Noted

[R2-2009775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009775.zip) On increasing the number of CSI-RS resources for L3 mobility Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_CSIRS\_L3meas

* [025] Noted

[R2-2010585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010585.zip) 38331 CR for CSI-RS-ResourceConfigMobility Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2250 - C NR\_CSIRS\_L3meas-Core

[R2-2010586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010586.zip) 38306 CR for supporting a maximum of 192 CSI-RS resources per MO Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0467 - C NR\_CSIRS\_L3meas-Core

[R2-2009776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009776.zip) Draft LS response on increasing the number of CSI-RS resources for L3 mobility Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_CSIRS\_L3meas To:RAN1, RAN4

[R2-2009777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009777.zip) Draft 38331 CR on increasing the number of CSI-RS resources for L3 mobility Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2127 - F NR\_CSIRS\_L3meas

[R2-2009365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009365.zip) Increase of the maximum number of configured CSI-RS resources per MO CATT CR Rel-16 38.331 16.2.0 2060 - F NR\_CSIRS\_L3meas-Core

* [AT112-e][026][R4 NR16] Miscellaneous (Huawei)

Treat R2-2008747, R2-2010598, R2-2010599, R2-2010358, R2-2008741, R2-2009346, R2-2010226, R2-2009245, R2-2009544

Intended outcome: Determine agreeable parts. For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC, If feasible, NR UE caps 38306 38331 deadline Nov 6.

Autonomous gap CGI

Treat by email

[R2-2008747](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008747.zip) Reply LS on CGI reading with autonomous gaps (R4-2012156; contact: ZTE) RAN4 LS in Rel-16 NR\_IIOT\_URLLC\_enh-Core To:RAN2

* [026] Noted

[R2-2010598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010598.zip) Correction to 38.331 on T321 for autonomous gap based CGI in FR2 ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2254 - F NR\_RRM\_enh-Core

- [026] Rapporteur, Intermediate: R2-2010598 and R2-2010599 are pursued. Detailed comments to the CRs, if any, can be further reviewed in Part 2.

* [026] revised (if needed)

[R2-2010599](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010599.zip) Correction to 36.331 on T321 for autonomous gap based CGI in FR2 ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4522 - F NR\_RRM\_enh-Core

* [026] revised (if needed)

[R2-2010358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010358.zip) 38331 CR on CGI reading with autonomous gaps Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2209 - F NR\_newRAT-Core

* [026] not pursued

HPUE

By email only, short UE cap

[R2-2008741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008741.zip) LS on UE capability for PC2 inter-band EN-DC (LTE FDD+NR TDD) (R4-2011787; contact: China Unicom) RAN4 LS in Rel-16 ENDC\_UE\_PC2\_FDD\_TDD To:RAN2

* [015] noted

[R2-2009346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009346.zip) 38306 CR for the support of EN-DC FDD+TDD HPUE China Unicom, Huawei, HiSilicon CR Rel-16 38.306 16.2.0 0425 - B ENDC\_UE\_PC2\_FDD\_TDD-Core

[R2-2010226](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010226.zip) support of EN-DC TDD-FDD HPUE Huawei, HiSilicon, China Unicom CR Rel-16 38.331 16.2.0 2191 - F ENDC\_UE\_PC2\_FDD\_TDD-Core

* [026] Both Not Pursued, already included in CR [015]

UL TX Switching

[R2-2009245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009245.zip) CR to add prerequisite of UL Tx switching capability ZTE Corporation, Sanechips CR Rel-16 38.306 16.2.0 0420 - F NR\_RF\_FR1

- [026] Rap, intermediate: 12 companies joined the discussion, 6 companies supported the proposal, 3 companies are against the proposal because the proposal is not consistent with RAN1/RAN4 agreement, 3 companies also think RAN2 should not change the agreement without RAN1 confirmation. There is no consensus and thus it is suggested to go online to decide whether to pursue this change.

- [026] Rap, intermediate: R2-2009245 needs an online discussion for decision.

* ON-LINE ComeBack

CA emission

Email Only

[R2-2009544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009544.zip) NR CA additional spectrum emission requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 1775 1 B NR\_RF\_FR1-Core R2-2007065

- [026] Rap, intermediate: All companies support this change and 1 company has the question on whether this is also applied to Rel-15. As responded by several companies, this change is only applied to Rel-16 as UL CA for some bands is supported in Rel-16.it is therefore suggested to pursue the CR in [R2-2009544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009544.zip).

- [026] Rap, intermediate: Proposal 4: [R2-2009544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009544.zip) is pursued. Detailed comments to the CR, if any, can be further reviewed in Part 2.

* [026] revised (if needed)

**Withdrawn**

[R2-2008737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008737.zip) LS on additional DC location reporting for intra-band UL CA (R4-2011906; contact: Qualcomm) RAN4 LS in Rel-16 NR\_RF\_FR1-Core To:RAN1, RAN2 Withdrawn

R2-2009907 38.331 Correction on relative threshold for MPE configuration ZTE Corporation, Sanechips CR Rel-16 38.321 16.2.0 0950 - F NR\_RF\_FR2\_req\_enh Withdrawn

## 6.16 NR Other

(R2 led NR TEI16, LSs from CT/SA requesting RAN2 action).

Limit: 2 email threads

**LS in**

[R2-2008722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008722.zip) Reply LS on energy efficiency (R3-205657; contact: Ericsson) RAN3 LS in Rel-16 FS\_EE5G To:SA5 Cc:RAN2, SA

No action. Proposed Noted [000]

**TEI16 Corrections**

Corrections to functions added for WI TEI16

* [AT112-e][027][NR TEI16] NeedForGap (QC)

Treat R2-2009401

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Short UE Cap

NeedForGap related NR

Treat on-line first, if possible

[R2-2009401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009401.zip) Clarification on NeedForGap reporting in NR-DC and NE-DC MediaTek Inc., ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2067 - F NR\_newRAT-Core

[R2-2010547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010547.zip) 1 bit capbility for gap requirment info for EN-DC Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0462 - B TEI16

Moved From 6.1

[R2-2010548](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010548.zip) 1 bit capbility for gap requirment info for EN-DC Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2238 - B TEI16

Moved From 6.1

[R2-2010555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010555.zip) NeedForGap for EN-DC Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0465 - B TEI16

Moved From 6.1

[R2-2010556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010556.zip) NeedForGap for EN-DC Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2241 - B TEI16

Moved From 6.1

[R2-2010549](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010549.zip) 1 bit capbility for gap requirment info for NR Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0463 - B TEI16

Moved From 6.1

[R2-2010550](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010550.zip) 1 bit capbility for gap requirment info for NR Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2239 - B TEI16

Moved From 6.1

[R2-2010553](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010553.zip) gap capability dynamic reporting for NR-DC Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0464 - B TEI16

Moved From 6.1

[R2-2010554](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010554.zip) gap capability dynamic reporting for NR-DC Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2240 - B TEI16

NeedForGap related LTE

Treat on-line first, if possible

[R2-2010551](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010551.zip) 1 bit capbility for gap requirment info for LTE Qualcomm Incorporated CR Rel-16 36.306 16.2.0 1799 - C LTE\_feMob-Core

Moved from 7.4.3

[R2-2010552](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010552.zip) 1 bit capbility for gap requirment info for LTE Qualcomm Incorporated CR Rel-16 36.331 16.2.1 4521 - C LTE\_feMob-Core

Moved from 7.4.3

On-line discussion Nov 4, on all the 1-bit + dynamic proposals above (10 tdocs)

- MTK wonder about the 1-bit approach is about Fr1 Fr2 separation etc. Wonder if this overlaps with R15 function.

- QC think the 1-bit refers to need gap for FR1 and/or FR2, in capability message. MTK wonders then if this is a new feature that is not decided by R4. MTK point out that R4 has specified gapless measurement in R16.

- QC think the size of UE cap is huge and doesn’t work in the field.

- MTK think for EN\_DC we then have both this semi-static approach in addition to normal cap report. MTK wonder if this is complementary or what. QC clarifies that it may override.

- ZTE wonder how frequent the UE can signal this 1-bit support. QC think it is different per vendor. ZTE think the cap is fixed, regardless current config, and wonder if the UE can support such cap.

- on 1-bit, Huawei think for NR we have already improved and there isn’t much issues. Huawei think the DC case was precluded in the beginning of need for gap discussion due to complexity. Agree for LTE

- QC think there is significant latency in the current methods that is addressed by this change, and think DC cases need to be included.

- Nokia agree with Huawei for 1-bit that for NR there is no issue, and for LTE we already have ways to control which bands are reported. Agree with ZTE that 1-bit is a very strong req for UE. Nokia would like to filter per band. Think DC cases comes with complexity.

- Apple are interested to do something. For 1-bit for LTE, what happens if this is reported to a RAN node that doesn’t support this. QC think this is controlled by the network. Apple think it would need to be sent again by the UE if the network doesn’t support this.

- Intel think that for the dynamic reporting it can be discussed. For 1-bit UE cap Intel has same concerns as other companies. Intel think this is similar to existing functionality for FR2.

- Ericsson are in general supportive of these discussions, in particular for EN-DC (to NR). Is this when EN-DC uses FR1 for SCG.

- LG is concerned about this kind of proposal at this late stage. Understand that this is just optimization, and should not be discussed.

- vivo think this can be discussed but need some time, e.g. for next release.

2nd round

- QC think that at least for LTE the 1-bit cap should be considered. Ericsson are interested in this. Huawei are also open to continue discuss for LTE as the size would be large.

- MTK think that for this case the reporting is there in R15, and think the size is no problem because we have both band filter, and segmentation. Not convinced that we need to do this.

- LG think Rel-16 is closed and think this cannot be discuss this now, oppose also this discussion.

- Nokia wonder if the 1-bit is for saying “always need gap” or “never need gap” is applied. QC think both (when the bit is present).

- Ericsson think that for EN-DC there is no current solution that the UE can indicate that it doesn’t need gaps. MTK think there is per-FR-gap indication, so there is some case, but MTK acknowledge that this is not a complete solution, and we can enhance in future release. QC think the existing solution is associated with other requirements, not just gaps.

- Chair (1st round): There is some interest, for 1-bit approach both for NR and LTE, and for extending dynamic reporting to DC cases, but there are also concerns to do this now as R16 is closed and these are optimizations.

- Chair (2nd round): It is clear that R16 is closed, and we can only do this if there is no opposition, but now there is some opposition

* For R16: No 1-bit approach, neither for NR nor for LTE, and no extension of dynamic reporting to DC cases.
* [AT112-e][028][NR TEI16] Misc Corrections I (Ericsson)

Treat R2-2010514, R2-2009947, R2-2009948, R2-2009099, R2-2009949, R2-2008893, R2-2008894, R2-2008895, R2-2009604, R2-2009605, R2-2009606, R2-2010510, R2-2010511, R2-2009985

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Full data rate UP IP

[R2-2008721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008721.zip) Reply LS on mandatory support of full rate user plane integrity protection for 5G ( R3-205653; contact: Qualcomm) LS in Rel-16 To:SA, RAN, CT, CT1, SA2, SA3, RAN2

No Action for R2. Proposed Noted [000]

[R2-2008756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008756.zip) LS on mandatory support of full rate user plane integrity protection for 5G (S2-2006181; contact: Qualcomm) SA2 LS in Rel-16 TEI16 To:SA Cc:CT1, SA3, RAN2, RAN3, RAN, CT

No Action for R2. Proposed Noted [000]

[R2-2010514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010514.zip) Full rate UP IP correction Ericsson discussion

Secondary DRX

[R2-2009947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009947.zip) Secondary DRX group description is missing Ericsson, Qualcomm CR Rel-16 38.300 16.3.0 0311 - F TEI16

[R2-2009948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009948.zip) Clarification for aperiodic CSI and secondary DRX group Ericsson, Qualcomm CR Rel-16 38.331 16.2.0 2147 - F TEI16

[R2-2009099](file:///D:\\Documents\\3GPP\\tsg_ran\\WG2\\TSGR2_112-e\\Docs\\R2-2009099.zip" \o "D:Documents3GPPtsg_ranWG2TSGR2_112-eDocsR2-2009099.zip) Corrections to Active time determination Samsung Electronics Co., Ltd CR Rel-16 38.321 16.2.1 0908 - F NR\_UE\_pow\_sav-Core

Moved from 6.9.2 per request from source. If agreed, the WI code should be revised to TEI16

[R2-2009949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009949.zip) Secondary DRX and architecture options Ericsson, Qualcomm discussion Rel-16 TEI16

Secondary DRX – Enhancement Scell Activation

[R2-2008893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008893.zip) Correction to DRX state of SCells in secondary DRX group upon SCell activation Qualcomm Incorporated, Ericsson CR Rel-16 38.321 16.2.0 0898 - F TEI16

[R2-2008894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008894.zip) UE capability for DRX state of secondary DRX group upon SCell activation Qualcomm Incorporated, Ericsson CR Rel-16 38.306 16.2.0 0415 - F TEI16

[R2-2008895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008895.zip) Configuration and capability signaling for DRX state of secondary DRX group upon SCell activation Qualcomm Incorporated, Ericsson CR Rel-16 38.331 16.2.0 2023 - F TEI16

DL segmentation

[R2-2009604](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009604.zip) Timer handling for DL segmented RRC message Samsung discussion Rel-16 TEI16

[R2-2009605](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009605.zip) T319 timer handling for DL segmented RRC messages Samsung CR Rel-16 38.331 16.2.0 2097 - F TEI16

[R2-2009606](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009606.zip) T300 timer handling for DL segmented RRC messages Samsung CR Rel-16 36.331 16.2.1 4473 - F TEI16

[R2-2010510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010510.zip) RRC segmentation for handover and dual connectivity Ericsson CR Rel-16 36.331 16.2.1 4520 - F TEI16

[R2-2010511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010511.zip) RRC segmentation for handover and dual connectivity Ericsson CR Rel-16 38.331 16.2.0 2232 - F TEI16

[R2-2009985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009985.zip) Discarding of stored DL RRC message segments when UE transitions to RRC\_IDLE MediaTek Inc. CR Rel-16 38.331 16.2.0 2151 - F TEI16

* [AT112-e][029][NR TEI16] Misc Corrections II (ZTE)

Treat R2-2009488, R2-2009489, R2-2009244, R2-2009812, R2-2010081, R2-2010543, R2-2009240, R2-2009241, R2-2010202, R2-2009849

Intended outcome: Intermediate: Determine agreeable parts. Final: For agreeable parts, agreed CRs.

Deadline: Intermediate deadline(s) by Rapporteur, Final: Discussion stop at Wed Nov 11, 1200 UTC

Processing time for DL segmentation and NeedForGap

[R2-2009488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009488.zip) Discussion on RRC processing delay Apple discussion Rel-16 TEI16

[R2-2009489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009489.zip) RRC CR on RRC processing delay Apple CR Rel-16 38.331 16.2.0 2084 - F TEI16

CSI-RS resource in INM

[R2-2009244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009244.zip) CR to introduce different SCSs of CSI-RS resource in INM ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2049 - F TEI16

Overheating

[R2-2009812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009812.zip) Miscellaneous corrections on overheating assistance information for NR SCG ZTE corporation, Sanechips CR Rel-16 36.331 16.2.1 4489 - F TEI16

[R2-2010081](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010081.zip) Correction regarding overheating assistance for SCG Samsung Telecommunications CR Rel-16 36.331 16.2.1 4494 - F TEI16

[R2-2010543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010543.zip) UE indication when it no longer experiences overheating Ericsson discussion NR\_newRAT-Core

VoiceFallback

[R2-2009240](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009240.zip) Clarify the usage of voiceFallbackIndication for emergency service ZTE Corporation, Sanechips discussion Rel-16 TEI16

[R2-2009241](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009241.zip) CR to clarify the usage of voiceFallbackIndication for emergency service ZTE Corporation, Sanechips CR Rel-16 38.331 16.2.0 2048 - F TEI16

eCall flag in sharing NW

[R2-2010202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010202.zip) Discussion on emergency services in RAN sharing scenario Huawei, HiSilicon discussion Rel-16 TEI16

**TEI16 Semi-New proposal**

Redirection and INACTIVE

[R2-2009849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009849.zip) Release with Redirect in 2 steps Ericsson discussion Rel-16 TEI16

DISCUSSION

- Chair asks for high level comments, can we have this in R16 or not.

- QC understands this is just a leftover from R15, and CT1 indeed have done the required change. ZTE also support this.

- Chair: No high level objections, so the discussion on details continues by email [029], and if no detailed issues assume this will be agreed.

- ZTE wonder if Ericsson will provide CRs. Ericsson confirms.

**TEI16 New Functionality – Not Treated**

MAC timer restart

[R2-2010448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010448.zip) Correction to MAC timer procedures Qualcomm Incorporated CR Rel-16 38.321 16.2.0 0988 - F TEI16

[R2-2010449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010449.zip) UE capability for not restarting MAC timers Qualcomm Incorporated CR Rel-16 38.306 16.2.0 0448 - F TEI16

[R2-2010450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010450.zip) Configuration and capability signaling for not restarting MAC timers Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2225 - F TEI16

Combined RRC procedure

[R2-2009925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009925.zip) On combined RRC procedures Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-16 TEI16 R2-2007549

[R2-2009926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009926.zip) RRC processing delays for combined procedures Nokia, Nokia Shanghai Bell, Ericsson CR Rel-16 38.331 16.2.0 1288 6 F TEI16 R2-2007557

Band selection (inter-node)

[R2-2010527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010527.zip) Discussion on band combination selection NTT DOCOMO, INC. discussion Rel-16 Late

[R2-2010528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010528.zip) Optimization for band combination selection NTT DOCOMO, INC. CR Rel-16 38.331 16.2.0 2235 - F NR\_newRAT-Core, TEI16

[R2-2010649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010649.zip) Optimization for band combination selection over inter-node RRC message (2) NTT DOCOMO INC. CR Rel-16 38.331 16.2.0 2267 - F NR\_newRAT-Core, TEI16

IRAT Cell reselection

[R2-2010257](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010257.zip) New RRC Release cause for inter-RAT cell (re)selection in RRC\_INACTIVE Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2195 - F TEI16

[R2-2010258](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010258.zip) New RRC Release cause for inter-RAT cell (re)selection in RRC\_INACTIVE Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4505 - F TEI16

UAC

[R2-2010417](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010417.zip) Discussion on UE behaviours for access barring alleviation Google Inc. discussion Rel-16 38.331 TEI16

Connection Fallback

[R2-2010434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010434.zip) Clarification on RRC connection fallback handling Google Inc. discussion Rel-16 38.331 TEI16

C-DRX configuration negotiation

[R2-2010564](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010564.zip) Supported C-DRX configurations by the network Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2246 - C NR\_newRAT-Core

Moved from 5.4.1.1

**Withdrawn**

R2-2010203 Clarification on emergency call in RAN sharing scenario Huawei, HiSilicon CR Rel-16 38.300 16.3.0 0315 - F TEI16 Withdrawn

R2-2010204 Clarification on emergency call in RAN sharing scenario Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2189 - F TEI16 Withdrawn

R2-2010487 Miscellaneous corrections on overheating assistance information for NR SCG ZTE corporation, Sanechips CR Rel-16 36.331 16.2.1 4515 - F TEI16 Withdrawn

# 7 Rel-16 EUTRA Work Items

Essential corrections

## 7.1 EUTRA Rel-16 General

No documents should be submitted to 7.1. Please submit to.7.1.x

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

### 7.1.1 Cross WI RRC corrections

Including [Post111-e][928][LTE16] EUTRA Parameter Names Consolidation (Samsung)

[R2-2009608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009608.zip) Updated consolidated parameter list for Rel-16 LTE Samsung discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core

[R2-2009609](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009609.zip) Reply LS on updated Rel-16 LTE parameter lists Samsung LS out Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core To:RAN WG1, RAN WG4

### 7.1.2 Feature Lists and UE capabilities

[R2-2008703](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008703.zip) LS on updated Rel-16 RAN1 UE features list for LTE (R1-2007139; contact: NTT DoCoMo, AT&T) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core, 5G\_V2X\_NRSL-Core, TEI16 To:RAN2 Cc:RAN4

[R2-2008709](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008709.zip) LS on updated Rel-16 RAN1 UE features lists for LTE (R1-2007329; contact: NTT DoCoMo, AT&T) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core, 5G\_V2X\_NRSL-Core, TEI16 To:RAN2 Cc:RAN4

[R2-2008742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008742.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR (R4-2011929; contact: CMCC) RAN4 LS in Rel-16 To:RAN2 Cc:RAN1

## 7.2 Additional MTC enhancements for LTE

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP192875;)

Documents in this agenda item will be handled in a break out session.

Some sub-items in 7.2 and 7.3 may be treated jointly.

Limit: 5-6 email threads

### 7.2.1 General and Stage-2 corrections

Including incoming LSs

[R2-2010497](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010497.zip) Support for eDRX cyle beyond 10.24s in RRC\_INACTIVE LG Electronics UK CR Rel-16 36.300 16.3.0 1328 - C LTE\_eMTC5-Core

### 7.2.2 Coexistence with NR corrections

Coexistence with NR for MTC and NB-IoT is treated jointly under this AI.

### 7.2.3 Connection to 5GC corrections

Connection to 5GC for MTC and NB-IoT is treated jointly under this AI.

[R2-2009051](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009051.zip) Discussion for clarification on SIB acquisition for eMTC UE in RRC\_INACTIVE ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core

[R2-2009738](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009738.zip) Correction to the DRX cycle on RRC\_INACTIVE for eMTC Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4483 - F LTE\_eMTC5-Core

[R2-2010461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010461.zip) Clarification on SIB acquisition for eMTC UE in RRC\_INACTIVE ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.1 4512 - F LTE\_eMTC5-Core

### 7.2.4 MTC UE capabilities corrections

[R2-2009447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009447.zip) UE capability for RSS on the same 2 RBs of the MPDCCH narrowband Qualcomm Inc, Ericsson CR Rel-16 36.331 16.2.1 4464 - F LTE\_eMTC5-Core

[R2-2009448](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009448.zip) RSS and relaxed monitoring capabilities for eMTC Qualcomm Inc, Ericsson CR Rel-16 36.306 16.2.0 1792 - F LTE\_eMTC5-Core

[R2-2009736](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009736.zip) Addition of missing capabilities for eMTC R16 Huawei, HiSilicon CR Rel-16 36.306 16.2.0 1780 2 F LTE\_eMTC5-Core R2-2008236

[R2-2009737](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009737.zip) Addition of missing capabilities for eMTC R16 Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4482 - F LTE\_eMTC5-Core

### 7.2.5 Other MTC specific corrections

Including corrections related to Mobile-terminated MT early data transmission EDT corrections, Scheduling multiple DL/UL transport blocks corrections, Quality report in Msg3, MPDCCH performance improvement using CRS, Improvements for non-BL UEs, Stand-alone deployment, Mobility enhancements and other MTC specific topics.

## 7.3 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: RP-200293)

Documents in this agenda item will be handled in a break out session

Some sub-items in 7.2 and 7.3 may be treated jointly.

Limit: 5-6 email threads

### 7.3.1 General and Stage-2 Corrections

Including incoming LSs etc

[R2-2008758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008758.zip) Reply LS on system support for WUS (S2-2006478; contact: Qualcomm) SA2 LS in Rel-15 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN2, RAN3

### 7.3.2 UE-group wake-up signal (WUS) Corrections

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

[R2-2009024](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009024.zip) Discussion for correction on paging narrowband selection for eMTC UE ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core

[R2-2009728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009728.zip) Clarification on the last used cell for GWUS Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4479 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2009729](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009729.zip) Clarification on the last used cell for GWUS Huawei, HiSilicon CR Rel-16 36.304 16.2.0 0814 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2010057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010057.zip) Correction on paging narrowband selection for eMTC UE ZTE Corporation, Sanechips CR Rel-16 36.304 16.2.0 0816 - F LTE\_eMTC5-Core

[R2-2010236](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010236.zip) Clarification on WUS group set selection Ericsson CR Rel-16 36.304 16.2.0 0817 - F LTE\_eMTC5-Core, NB\_IOTenh3-Core

### 7.3.3 Transmission in preconfigured resources corrections

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

[R2-2009730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009730.zip) Clarification on the reference (N)RSRP for the first TA validation for PUR Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4480 - F NB\_IOTenh3-Core, LTE\_eMTC5-Core

### 7.3.4 Other NB-IoT Specific corrections

NB-IoT specific topics

[R2-2009733](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009733.zip) Correction to CP RRC Connection Reestablishment in 5GC Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4481 - F NB\_IOTenh3-Core

## 7.4 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: RP-190921)

No documents should be submitted to 7.4. Please submit to.7.4.x

Documents under 7.4 will be treated together with documents in 6.7

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

### 7.4.1 General and Stage-2 Corrections

Including incoming LSs (if any)

[R2-2008717](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008717.zip) LS response on power sharing for LTE mobility enhancements (R1-2007420; contact: Ericsson) RAN1 LS in Rel-16 LTE\_feMob-Core To:RAN2

[R2-2010207](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010207.zip) Correction for the definition of DAPS handover (36.300) SHARP Corporation CR Rel-16 36.300 16.3.0 1327 - F LTE\_feMob-Core

[R2-2010208](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010208.zip) Correction for the definition of DAPS handover (38.300) SHARP Corporation CR Rel-16 38.300 16.3.0 0316 - F NR\_Mob\_enh-Core

### 7.4.2 DAPS handover Corrections

This AI jointly addresses corrections to NR and LTE DAPS.

Including corrections to control and user plane for DAPS HO.

Including discussion on how to avoid mTRP usage during DAPS HO as per RAN#89e discussion.

[R2-2009272](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009272.zip) Release SCells/SCG configuration during DAPS HO Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2009275](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009275.zip) Support of DAPS handover without key change Intel Corporation, Ericsson discussion Rel-16 NR\_Mob\_enh-Core R2-2006935

[R2-2009276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009276.zip) Miscellaneous corrections for Mobility Enhancements Intel Corporation (Rapporteur), Ericsson CR Rel-16 38.331 16.2.0 2050 - F NR\_Mob\_enh-Core

[R2-2009380](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009380.zip) Discussion on SCells and SCG release in DAPS HO ZTE Corporation, Sanechips, Ericsson discussion Rel-16

[R2-2009381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009381.zip) Clarification on SCells and SCG release in DAPS HO - 38.300 ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.300 16.3.0 0306 - F NR\_Mob\_enh-Core

[R2-2009382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009382.zip) Clarification on SCells and SCG release in DAPS HO - 36.300 ZTE Corporation, Sanechips, Ericsson CR Rel-16 36.300 16.3.0 1320 - F LTE\_feMob-Core

[R2-2009383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009383.zip) Clarification on no support of multi-TRP with DAPS HO - 38.331 ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.331 16.2.0 2061 - F NR\_Mob\_enh-Core

[R2-2009384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009384.zip) Clarification on no support of multi-TRP with DAPS HO - 38.300 ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.300 16.3.0 0307 - F NR\_Mob\_enh-Core

[R2-2009534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009534.zip) Correction on Source Cell Group and Source SpCell on DAPS CATT,Ericsson CR Rel-16 38.331 16.2.0 2087 - F NR\_Mob\_enh-Core

[R2-2009535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009535.zip) Corrections on DAPS in 36.331 CATT,Ericsson CR Rel-16 36.331 16.2.1 4467 - F LTE\_feMob-Core

[R2-2009559](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009559.zip) Handling of SCells and mTRP during DAPS HO Qualcomm Incorporated discussion

[R2-2009654](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009654.zip) Handling of expiry of dataInacticityTimer for DAPS NEC discussion Rel-16 LTE\_feMob-Core

[R2-2009765](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009765.zip) Clarification on no DAPS HO in MR-DC Nokia, Nokia Shanghai Bell CR Rel-16 36.300 16.3.0 1301 1 F LTE\_feMob-Core R2-2007358

[R2-2009767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009767.zip) On how to release SCells when DAPS HO is configured Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_feMob-Core

[R2-2009768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009768.zip) Draft 38331 CR SCells during DAPS HO Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2126 - F NR\_Mob\_enh-Core

[R2-2009769](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009769.zip) Draft 36331 CR SCells during DAPS HO Nokia, Nokia Shanghai Bell CR Rel-16 36.331 16.2.1 4486 - F LTE\_feMob-Core

[R2-2009770](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009770.zip) Prohibiting simultaneous DAPS and multi-TRP operation Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

[R2-2010105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010105.zip) Clarification of SCells, mTRP, and DC during DAPS HO Qualcomm Incorporated CR Rel-16 38.331 16.2.0 2176 - F NR\_Mob\_enh-Core

[R2-2010209](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010209.zip) Potential security issue on DAPS handover with key change failure SHARP Corporation discussion Rel-16 NR\_Mob\_enh-Core R2-2007790

[R2-2010210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010210.zip) [Draft] LS to SA3 on security handling for DAPS handover SHARP Corporation LS out Rel-16 NR\_Mob\_enh-Core R2-2007791 To:SA3

[R2-2010294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010294.zip) Correction on RLF handling in DAPS Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2202 - F NR\_Mob\_enh-Core

[R2-2010295](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010295.zip) Correction on RLF handling in DAPS Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4506 - F LTE\_feMob-Core

[R2-2010297](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010297.zip) Correction on reestablishRLC for DAPS Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2203 - F NR\_Mob\_enh-Core

[R2-2010328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010328.zip) DAPS HO without security key change LG Electronics Inc. discussion LTE\_feMob-Core

[R2-2010435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010435.zip) Correction on DAPS OPPO CR Rel-16 38.331 16.2.0 2222 - F NR\_Mob\_enh-Core

[R2-2010499](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010499.zip) RLF in source during DAPS Ericsson discussion

[R2-2010501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010501.zip) Handling of dataInactivityTimer for DAPS Ericsson discussion

[R2-2010504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010504.zip) Miscellaneous mobility-related corrections Ericsson, ETRI CR Rel-16 36.331 16.2.1 4518 - F LTE\_feMob-Core

[R2-2010505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010505.zip) Release source cell configuration at DAPS handover Ericsson CR Rel-16 38.331 16.2.0 2231 - F NR\_Mob\_enh-Core

[R2-2010506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010506.zip) DAPS handover for bearers configured with NR PDCP Ericsson CR Rel-16 36.331 16.2.1 4519 - F LTE\_feMob-Core

[R2-2010507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010507.zip) Clarifications on DAPS and conditional handover for LTE-5GC Ericsson CR Rel-16 36.300 16.3.0 1329 - F LTE\_feMob-Core

[R2-2010639](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010639.zip) Discussion on source release indication Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2010640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010640.zip) Discussion on releasing source MCG SCells and mTRP Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

### 7.4.3 UE capability corrections

Including UE capability aspects of LTE mobility WI that are LTE-specific.

[R2-2009188](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009188.zip) Clarifications to LTE DAPS capabilities Nokia, Nokia Shanghai Bell discussion Rel-16 LTE\_feMob-Core

[R2-2010298](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010298.zip) Correction on LTE DAPS UE capability Huawei, HiSilicon CR Rel-16 36.331 16.2.1 4507 - F LTE\_feMob-Core

[R2-2010299](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010299.zip) Correction on LTE DAPS UE capability Huawei, HiSilicon CR Rel-16 36.306 16.2.0 1796 - F LTE\_feMob-Core

[R2-2010498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010498.zip) Restriction on PHR for DAPS Ericsson, China Telecom, LG Electronics Inc., Nokia, Nokia Shanghai-Bell, MediaTek, Vivo, CATT CR Rel-16 36.331 16.2.1 4516 - F LTE\_feMob-Core

[R2-2010502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010502.zip) Introducing power sharing for DAPS handover Ericsson, Qualcomm CR Rel-16 36.306 16.2.0 1798 - F LTE\_feMob-Core

=> Revised in [R2-2010681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010681.zip)

[R2-2010681](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010681.zip) Introducing power sharing for DAPS handover Ericsson, Qualcomm, Huawei CR Rel-16 36.306 16.2.0 1798 1 F LTE\_feMob-Core

[R2-2010503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010503.zip) Introducing power sharing for DAPS handover Ericsson, Qualcomm CR Rel-16 36.331 16.2.1 4517 - F LTE\_feMob-Core

=> Revised in [R2-2010682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010682.zip)

[R2-2010682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010682.zip) Introducing power sharing for DAPS handover Ericsson, Qualcomm, Huawei CR Rel-16 36.331 16.2.1 4517 1 F LTE\_feMob-Core

### 7.4.4 Other corrections

Only corrections not fitting other agenda items.

Including CHO aspects that are LTE-specific without equivalent NR impacts:

[R2-2010251](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010251.zip) UE information transmission in LTE CHO case SHARP Corporation, Ericsson discussion Rel-16 LTE\_feMob-Core

[R2-2010252](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010252.zip) Clarification on UE information transmission in CHO case(36.331) SHARP Corporation, Ericsson CR Rel-16 36.331 16.2.1 4503 - F LTE\_feMob-Core

[R2-2010641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010641.zip) Cell selection upon RRCConnectionReestablishment Samsung R&D Institute UK CR Rel-16 36.331 16.2.1 4525 - F LTE\_feMob-Core

[R2-2010645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010645.zip) Miscellaneous corrections on LTE CHO procedures Samsung R&D Institute UK CR Rel-16 36.331 16.2.1 4526 - F LTE\_feMob-Core

## 7.5 LTE Other WIs

(LTE\_terr\_bcast-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_high\_speed\_enh2-Core; LTE TEI16 Non-positioning)

(Documents relating to Rel-16 LTE but for which there is no existing RAN WI/SI, e.g. LSs from CT/SA requesting RAN2 action)

Editorial corrections should be taken up with the specification editor before submitting to avoid CR duplication.

Including TEI16 corrections and issues that do not fit under any other topic.

[R2-2008704](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008704.zip) LS on Updates to TS 36.300 on terrestrial broadcast (R1-2007154; contact: Qualcomm) RAN1 LS in Rel-16 LTE\_terr\_bcast-Core To:RAN2

[R2-2008907](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008907.zip) Corrections to UE capabilities Lenovo, Motorola Mobility (Rapporteur) CR Rel-16 36.306 16.2.0 1789 - F NR\_IIOT-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_eMTC5-Core, TEI16

[R2-2008908](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008908.zip) Corrections to UE capabilities and SIB25 Lenovo, Motorola Mobility, Ericsson CR Rel-16 36.331 16.2.1 4453 - F LTE\_DL\_MIMO\_EE-Core, LTE\_eMTC5-Core, TEI16

[R2-2009385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009385.zip) Correction on T312 timer information ZTE Corporation, Sanechips CR Rel-16 36.331 16.2.0 4461 - F LTE\_feMob-Core

[R2-2009433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009433.zip) Clarification to Fallback band combination definition Nokia, Nokia Shanghai Bell CR Rel-16 36.306 16.2.0 1782 1 F TEI16 R2-2007518

[R2-2009446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009446.zip) CP length and reference signal for MBSFN with sub-carrier spacing of 0.375 KkHz and 2.5 kKHz Qualcomm Inc CR Rel-16 36.300 16.3.0 1322 - F LTE\_terr\_bcast-Core

[R2-2009603](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009603.zip) Minor changes collected by Rapporteur Samsung CR Rel-16 36.331 16.2.1 4472 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2009802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009802.zip) Miscellaneous Stage-2 corrections Nokia (rapporteur), NEC, Lenovo, Motorola Mobility, Intel Corporation, ZTE, Sanechips, Ericsson CR Rel-16 36.300 16.3.0 1324 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core, NB\_IOTenh3-Core, LTE\_eMTC5-Core, LTE\_feMob-Core, TEI16

## 7.6 LTE Positioning

(NavIC, LTE TEI16 Positioning)

Documents in this agenda item will be handled by email. No web conference is planned for this agenda item.

# 8 Rel-17 NR Work Items

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: RP-201038)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-6 threads

### 8.1.1 Organizational Requirements Scope and Architecture

Including stage-2 proposals. Including [Post111-e][904][MBS] L2 Architecture (Huawei). Including discussion of the SA2 LS in S2-2006044.

Work Plan

[R2-2009334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009334.zip) Updated NR MBS workplan Huawei, CMCC, HiSilicon discussion Rel-17 NR\_MBS-Core

- Huawei explain that WP is just updated to the TUs from RP.

* Noted

CR

[R2-2009343](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009343.zip) 38.300 running CR for NR MBS Huawei, HiSilicon draftCR Rel-17 38.300 16.3.0 B NR\_MBS-Core

- This is a skeleton. For some sections we may need input from R3.

- Chair think we usually also has a tmp section capturing agreements

- Lenovo think we use to only capture R2 agreement. Huawei think R3 contents indeed is needed.

- Nokia wonders if we can trust the rapporteur to get R3 parts and to update per meeting wo LSes.

- Huawei think that if R3 can agree text then the rapporteur can do the merge.

* Revised (to capture meeting output)

LS

[R2-2008751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008751.zip) Reply LS on RAN impact of FS\_5MBS Study (RP-202086; contact: Huawei) RAN LS in Rel-17 FS\_5MBS, NR\_MBS-Core To:SA, SA2 Cc:RAN2, RAN3

[R2-2008768](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008768.zip) Reply LS on RAN impact of FS\_5MBS Study (SP-200884; contact: Huawei) SA LS in Rel-17 FS\_5MBS, NR\_MBS-Core To:RAN, SA2 Cc:RAN2, RAN3

* Both Noted
* [AT112-e][036][MBS] SA2 LS on MBS (Huawei)

Scope: Reply to R2-2008755 Can if needed come back on-line.

Intended outcome: Approved LS out

Deadline: EOM

[R2-2008755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008755.zip) LS on RAN impact of FS\_5MBS Study (S2-2006044; contact: Huawei) SA2 LS in Rel-17 FS\_5MBS, NR\_MBS-Core To:SA, RAN, RAN2, RAN3

* Noted

[R2-2011022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2011022.zip) Summary of [AT112-e][036][MBS] SA2 LS on MBS Huawei

DISCUSSION

P1

- ZTE wonder if Network means RAN or Core network. Huawei think we just need a simple solution. ZTE think as long as there is visibility to RAN, then some definition is needed.

- CMCC think the proposal is acceptable.

- Intel think the definition in SA2 is that multicast session is to deliver multicast application and same as for broadcast and broadcast application. Huawei think this is not correct.

P2/2a

- QC agrees that we can limit to Connected.

- ZTE think we need to support all states for scalability.

- MTK are ok w P2 and think the main discussion of 2a etc whether UE can be switched to Inactive or Idle when ther eis no data. Huawei think this is the next p

- vivo would like to not exclude inactive and Idle. Lenovo also agrees and think the UE can receive low QoS data in inactive and Idle. Ericsson agrees, and think we may need to switch users from connected to Idle/Inactive (and back). CATT also think for multicast there can be low QoS and high QoS data for multicast and suggest rewording.

- OPPO think we can assume that Multicast service require high QoS, but support 2-1, and think bcast can be used for low QoS. ZTE think that multicast QoS can be low and ca use mode 2. Intel agrees.

- Intel think high QoS is not just reliability but also latency

- Nokia agrees that we can assume to use Bcast for low QoS and for Multicast we can assume high QoS and that the UE is in connected. Any other permutation can be looked at if time towards the end of the work. BT agrees with Oppo and Nokia. Huawei agrees. QC agrees as well.

- AT&T support Ericsson and wonder how this will be controlled. Chair assumes NAS need to control the UE.

- Samsung prefer to use connected only for all delivery of Data.

- FW think we should add that mode 1 involves feedback.

- CMCC think Bcast is not for inactive.

- Convida think Mcast can use any QoS and the word delivery mode is not so good

- NEC think that IoT devices require low power consumption, so the UE state is important.

- Ericsson cannot accept that MCAST will not support service in IDLE or INACTIVE.

- Lenovo think Bcast Mcast can be decided based on assistance info and are not sure what the TS impact of the two delivery modes is.

- LG think this was also discussed at RP. And think both Mcast and Bcast are available in both connected and Idle. LG think this need to be confirmed by RP.

P3/3a/3b

- Ericsson think whether a UE can go to Idle depends on expected inactivity period and latency requirements, and are concerned that the RAN decided switch Connected – Inactive and CN decides switch to Idle.

- MTK think this shall be based on Delivery mode, where for mode 1 the UE should not go to Idle mode (or inactive).

- Oppo think that we need to consider the data loss during transition.

- FW think this is anyway under network control.

- Xiaomi think that for inactive there is no issue, Connected / Inactive is transparent to CN.

P4

- Huawei suggest to not discuss

- QC think P4 seems reasonable. Ericsson think all possible options need further discussion.

P5

- vivo think we should wait also with this one.

- Xiaomi think the activation / deactivation can even be transparent to RAN.

- ZTE are not sure who shall detect whether no data is ongoing. If CN maybe Sa2 should decide. For legacy, e.g. MCE can suspend/restore.

- FW think indeed there may be RAN impact, but we can let SA2 decide first.

- Samsung think P5 and P6 are ok.

P8

- Ericsson think SA2 asked about information for PTP PTM switch. This said information may be need, but not for PTP PTM switch. Oppo agrees. ZTE agrees and think this can be progressed further.

- Vivo agrees that this info is not only for PTP PTM switch, and think the interest indication can replace the subscribe info. Intel agrees.

- Lenovo think this info do not exclude other.

- CATT think this is also up to R3.

- QC think the subscription info, QoS req and Radio conditions is sufficient and it is up to RAN to decide PTP PTM.

- Nokia think that the fuzzy text now is not useful.

* For Rel-17, R2 specifies two *modes*:

**1: One *delivery mode* for high QoS (reliability, latency) requirement, to be available in CONNECTED (possibly the UE can switch to other states when there is no data reception TBD)**

**2: One *delivery mode* for “low” QoS requirement, where the UE can also receive data in INACTIVE/IDLE (details TBD).**

**R2 assumes (for R17) that delivery mode 1 is used only for multicast sessions.**

**R2 assumes that delivery mode 2 is used for broadcast sessions.**

**The applicability of delivery mode 2 to multicast sessions is FFS.**

* No data: When there is no data ongoing for the multicast session, the UE can stay in RRC\_CONNECTED. Other cases FFS
* It is up to SA2 to decide whether the multicast session activation/deactivation mechanism is supported or not, and RAN2 will discuss if there is any RAN2 impacts based on SA2 inputs.
* It is up to SA2 to decide on the support of local MBS service, and RAN2 will discuss the RAN2 impacts based on SA2 inputs.
* In general, Information of MBS services/groups subscribed by the UE (e.g. TMGI) and QOS requirements of a MBS service should be provided to RAN. Detail information e.g. for PTM PTP switch if any is FFS.

[R2-2009335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009335.zip) Discussion on SA2 LS on RAN impact of FS\_5MBS Study Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2009336](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009336.zip) Draft reply LS to SA2 on RAN impact of FS\_5MBS Study Huawei, HiSilicon LS out Rel-17 NR\_MBS-Core To:SA, SA2, RAN3 Cc:RAN

[R2-2009822](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009822.zip) draft\_Reply LS on RAN impact of FS\_5MBS Study ZTE, Sanechips LS out Rel-17 To:SA2, RAN3

[R2-2009954](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009954.zip) SA2 questions about RRC state transitions for multicast Ericsson discussion Rel-17 NR\_MBS-Core

Broadcast Multicast

[R2-2009036](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009036.zip) NR Multicast Vs Broadcast comparison and Radio Bearer Architecture aspects Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2009668](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009668.zip) Framework for NR MBS Broadcast and Multicast services Lenovo, Motorola Mobility discussion Rel-17 NR\_MBS-Core

General and Control Plane

[R2-2010234](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010234.zip) Consideration of control plane aspects for NR MBS Kyocera discussion Rel-17

[R2-2009196](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009196.zip) MBS L2 Architecture, user plane and control plane Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2010214](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010214.zip) General considerations on NR MBS vivo discussion

L2 Architecture

[R2-2009337](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009337.zip) Summary of Email discussion Post111-e-904 MBS L2 Architecture Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

DISCUSSION

P1

- Xiaomi think SDAP is not needed in the UE side. Oppo agrees with Xiaomi.

- CMCC think SA2 has decided that there can be multiple QoS flows per Session so this is needed. CMCC think R2 can decide how to map QoS flow to DRB. Huawei and Apple and Lenovo agrees

- MTK think SDAP may be needed in both UE and Network. In the UE do to demuxing.

- ZTE think this is a M:N mapping. QC agrees and think at least Network SDAP is needed.

P4/5

- Ericsson wonder why SA2 need to be involved.

- Huawei think we may need to ask anyway.

- QC think MSF function is optional, but think RAN is the suitable place for the main UP processing.

- Oppo think we need to confirm RoHC before deciding on PDCP.

- LG think that for LTE we didn’t have PDCP and we asked SA2 to specify ROHC. If we decide to have PDCP then we don’t need to ask SA2 on ROHC. Apple agrees

- Sony wonder if ROHC is applicable to Bcast as well. Huawei think yes. QC think the protocol stack will be similar/same but the functionality may be somewhat different, but ROHC can apply to both.

- Samsung think we can just agree, we don’t need working assumptions, this is pure R2 fuctionality.

P7

- LG think PDCP SR and retransmission can be used for normal transmission and retransmission,

- Chair: Skip P7 for now.

P8

- CATT think we need to clarify if this is for PTP PTM or both. MTK think for Both.

- LG think this is obvious, and all existing functions can be used.

P10

- Skipped for now

P16/P17

- Intel think a single RLC entity per PDCP entity per pair of PTP PTM, everything gets simpler.

- QC think a single RLC entity is simpler. The point of a single RLC entity is that it is easier to support RLC AM also for PTM.

- MTK agrees with Intel and QC to have the combined RLC-AM entity for PTM PTP. MTK think that also a PDCP based anchor could work.

- Fujitsu wonder if th two RLC entites can be one RLC AM and one RLC UM.

- vivo prefer PDCP anchor solution, and think this enables lossless HO and PTM PTP switch, and think we only need one solution.

- Futurewei think Common RLC it is difficult to adapt to different radio conditions of PTM PTP links when RLC entity is the same.

- Huawei think that the mobility need to be handled by PDCP in any case, but wonder if split bearer is needed at all when supporting RLC-AM. Intel think that also for service continuity there can be a single RLC entity (for both PTM and PTP). Xiaomi think single RLC entity is mostly beneficial in intra-DU scenarios.

Chair: it seems there are two proposals on the table

1) P16P17 with PDCP as the anchor

2) To have also a Common PTP PTM RLC entity to easier support RLC AM for PTM.

Will come back to this discussion.

* The function of mapping from QoS flows to MBS RBs in SDAP is needed for NR MBS. TBD whether any SDAP header is needed.
* (Working assumption) no SDAP functions other than “mapping from QoS flows to radio bearers” and “transfer of user plane data” are supported for MBS. FFS whether to support QoS flows to radio bearers remapping.
* In general: RAN2 wait for SA3’s progress for discussing security issues. TBD whether we need to send LS to SA3.
* RoHC (at least U-mode) can be configured for NR MBS bearers. This is applicable for Mcast, assume this is applicable also to broadcast.
* RoHC is located at PDCP.
* The reordering and in-order delivery function in PDCP is supported for NR MBS.
* The following PDCP functions are also supported for NR MBS: transfer of data; maintenance of PDCP SNs; duplicate discarding. Other PDCP functions are FFS.
* RLC AM is supported for PTP transmission of NR MBS.
* RLC UM is supported for PTP transmission of NR MBS.
* RLC UM is supported for PTM transmission of NR MBS.
* RLC TM is not supported for PTP transmission of NR MBS.
* RLC TM is not supported for PTM transmission of NR MBS.
* FFS for PTM if multiplexing/de-multiplexing of different logical channels are to be supported in MAC for NR MBS.

[R2-2008791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008791.zip) Discussion on Requirement and Architecture of MBS CATT discussion Rel-17 NR\_MBS-Core

[R2-2010064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010064.zip) On Stage-2 aspects and overview of NR MBS Samsung discussion

[R2-2008865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008865.zip) Considerations on Protocol stack and network architecture OPPO discussion Rel-17 NR\_MBS-Core

[R2-2008929](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008929.zip) Discussioin on the protocol stack for NR MBS CHENGDU TD TECH LTD. discussion Late

L2 Architecture - PTP PTM

[R2-2009303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009303.zip) MBS Protocol Architecture and Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2009740](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009740.zip) L2 architecture for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2009883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009883.zip) Security for PTP and PTM switching Sony discussion Rel-17 NR\_MBS-Core

[R2-2010411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010411.zip) Discussion on user-plane channel structure for MBS LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

### 8.1.2 Connected mode UEs

#### 8.1.2.1 Reliability

General reliability. Whether to support RLC-AM or not for PTM.

RLC-AM

[R2-2009197](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009197.zip) MBS service reliability improvement Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2009034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009034.zip) NR Multicast PTM bearer RLC AM mode operation Qualcomm Inc, British Telecom, Kyocera discussion Rel-17 NR\_MBS-Core

[R2-2008792](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008792.zip) Reliability Enhancement for PTM Transmission CATT discussion Rel-17 NR\_MBS-Core

DISCUSSION on RLC-AM for PTM

- QC understood that CATT are proposing ARQ in PDCP instead.

- CMCC think RLC AM comes with huge complexity. CMCC doesn’t understand how the combined RLC shall work. MTK agrees and think the complexity is high. Vivo also think so, and wonder why PTM is used at all it very high reliability is required.

- Futurewei think the main argument against RLC-AM is complexity, but it might be simple, and think if PDCP loss is a criterion for reporting modifications are needed in any case.

- Samsung think reliability can also be achieved by other means, and think RLC-UM is sufficient.

- ZTE observes that the assumption seems to be that PTP and PTM shall deliver the same reliability, which seems like a wrong assumption. ZTE think switching PTP PTM is much simpler than RLC-AM for PTM

- LG think majority of companies assume some PDCP impact, and majority think RLC AM for PTM is complex.

- Nokia think the QC paper shows that RLC AM is indeed complex.

- IDT think split bearer concept is very well known, and will be simpler.

- Firstnet would like to have as much reliability as possible. Firstnet request R2 to support both HARQ and RLC-AM for Multicast.

- BT think RLC AM is required for reliability.

- Spreadtrum think UE need to be able to receive PTM and PTP simultaneously.

SOH Support RLC-AM for PTM (this is just indicative for information, to be removed in the final chair notes.

- Yes: AT&T, BT, Convida, FirstNet, Kyocera, Sony, Intel, Futurewei, Oppo, Qualcomm, APT, Xiaomi.

- No: Fujitsu, Sharp, ZTE, vivo, LG, Ericsson, CATT, Apple, Samsung, Google, Lenovo, Nokia, Huawei, IDT, CMCC, MTK, NEC, Spreadtrum,

DISCUSSION

- Ericsson think reliability is very important but think it can be achieved also without RLC-AM, and as this is a simpler solution this should be the baseline,

- Huawei think there is a lot of work in this WI, and much better than LTE with HARQ and switching.

- Nokia think MBMS in the past has been complex and the complexity has not been implemented.

- Futurewei think we can still have ARQ over PTM, even without RLC-AM.

Chairman: Think that most other functions is not dependent on RLC-AM. Furthermore the scope of the WI is a bit large for the TU allocation, Understand similar to Ericsson that reliability can be achieved with mechanisms other than RLC-AM for PTM (but the cost wrt resource usage may be different dep on mechanism). Suggest to assume for now that RLC-AM is not supported for PTM. If it is shown to be needed it can be added, i.e. this can be revisited.

* Working assumption: RLC-AM for PTM is not supported (can be revisited but it means that proponents of RLC-AM for PTM need to demonstrate the need, to change this).

Next day:

- Qualcomm do not want to accept this working assumption. QC want to not make decisions until proper evaluations has been done.

- Oppo think the modelling is important

- LG think reliability can still be there even without RLC-AM for PTM, there are two legs and we have RLC-AM for PTP.

[R2-2009304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009304.zip) ARQ of PTM with Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2009612](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009612.zip) Reliability of NR MBS NEC discussion Rel-17 NR\_MBS-Core

[R2-2009575](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009575.zip) Reliable MBS Transmission Sharp discussion

[R2-2009600](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009600.zip) Reliability Enhancements for NR MBS Samsung discussion Rel-17 NR\_MBS-Core

Split bearer, Switching, PDCP etc

[R2-2010412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010412.zip) Discussion on reliability improvement and UL feedback in NR multicast LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

[R2-2009313](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009313.zip) PDCP Operation for MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2009494](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009494.zip) Consideration on MBS transmission reliability Apple discussion Rel-17 NR\_MBS-Core

[R2-2009961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009961.zip) Reliability for multicast operation Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2009338](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009338.zip) Reliability enhancement for NR MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2009741](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009741.zip) Consideration on MBS reliability guarantee ZTE, Sanechips discussion Rel-17

General

[R2-2010382](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010382.zip) Consideration on Reliability Enhancement for MBS CMCC discussion Rel-17 NR\_MBS-Core

[R2-2009154](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009154.zip) Discussion on reliability of MBS service Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2008866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008866.zip) Discussion on reliability for MBS reception OPPO discussion Rel-17 NR\_MBS-Core

[R2-2010160](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010160.zip) On reliability enhancement for NR multicast and broadcast Convida Wireless discussion Rel-17

[R2-2010215](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010215.zip) Discussion reliability for RRC\_CONNECTED UEs vivo discussion

[R2-2010643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010643.zip) Discussion on UE mode in CONNECTED states TD Tech discussion Rel-17 NR\_MBS-Core Late

HARQ

[R2-2009126](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009126.zip) HARQ operation for NR MBS reliable transmission MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2009879](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009879.zip) On HARQ and RLC for 5G MBS reliability Lenovo, Motorola Mobility discussion Rel-17

[R2-2008932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008932.zip) Consideration on reliability for NR MBS CHENGDU TD TECH LTD. discussion Late

#### 8.1.2.2 Dynamic PTM PTP switch with service continuity

[R2-2009037](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009037.zip) Enhancements for supporting loss less PTM PTP switching Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2008867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008867.zip) Dynamic PTM and PTP switching with service continuity OPPO discussion Rel-17 NR\_MBS-Core

[R2-2009440](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009440.zip) Dynamic PTP PTM switch LG Electronics Inc. discussion

[R2-2009127](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009127.zip) Dynamic PTM-PTP switch MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2009314](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009314.zip) MBS split bearer configuration and PTP/PTM switching Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2008930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008930.zip) Dynamic switch between PTM and PTP with service continuity CHENGDU TD TECH LTD. discussion Late

[R2-2008989](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008989.zip) Dynamic switch between PTM and PTP for service continuity Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2009103](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009103.zip) Consideration on PTP/PTM switching Shanghai Jiao Tong University discussion Rel-17

[R2-2009128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009128.zip) NR MBS Radio Bearer Structure MediaTek Inc. discussion Rel-17 NR\_MBS-Core

[R2-2009155](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009155.zip) Discussion on dynamic PTM PTP switch Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2009305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009305.zip) Service Continuity during Dynamic PTM/PTP Switch with Logical Channel Aggregation Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2009339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009339.zip) Support of dynamic switch between PTP and PTM Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2008793](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008793.zip) Open Issues on Dynamic PTM and PTP Switch CATT discussion Rel-17 NR\_MBS-Core

[R2-2009495](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009495.zip) PTM PTP switch with MBS service continuity Apple discussion Rel-17 NR\_MBS-Core

[R2-2009576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009576.zip) Dynamic switch between PTP and PTM Sharp discussion

[R2-2009601](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009601.zip) PTM PTP Switching and MBS Bearer Type Samsung discussion Rel-17 NR\_MBS-Core

[R2-2009613](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009613.zip) Service Continuity for Connected mode UE NEC discussion Rel-17 NR\_MBS-Core

[R2-2009614](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009614.zip) Simultaneous transmission of multicast/unicast NEC discussion Rel-17 NR\_MBS-Core

[R2-2009641](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009641.zip) Discussion on the counting scheme for dynamically switching PTM and PTP ITRI discussion NR\_MBS-Core

[R2-2009673](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009673.zip) Clarification on the dynamic switching in MAC Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2009742](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009742.zip) Dynamic mode switching for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2009880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009880.zip) 5G MBS dynamic switch between PTP and PTM with service continuity Lenovo, Motorola Mobility discussion Rel-17

[R2-2009959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009959.zip) PTM to PTP Dynamic Switch Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2010139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010139.zip) Dynamic PTM/PTP Switching Convida Wireless discussion Rel-17

[R2-2010216](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010216.zip) Dynamic PTM PTP switch for RRC Connected UE vivo discussion R2-2007034

[R2-2010383](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010383.zip) Discussion on Dynamic PTM PTP switch with service continuity CMCC discussion Rel-17 NR\_MBS-Core

#### 8.1.2.3 Mobility with Service continuity

Including [Post111-e][905][MBS] Connected Mode Mobility with Service Continuity (CMCC)

[R2-2010385](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010385.zip) Summary of [Post111-e][905][MBS] Connected Mode Mobility with Service Continuity (CMCC) CMCC discussion Rel-17 NR\_MBS-Core

[R2-2009496](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009496.zip) Mobility with MBS service continuity Apple discussion Rel-17 NR\_MBS-Core

[R2-2010384](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010384.zip) Discussion on Mobility with Service Continuity CMCC discussion Rel-17 NR\_MBS-Core

[R2-2009340](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009340.zip) Service continuity during inter-cell mobility Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2009035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009035.zip) NR Multicast Broadcast mobility enhancements with service continuity Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2009054](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009054.zip) HO for NR MBS MediaTek Inc. discussion

[R2-2008794](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008794.zip) Open Issues on Mobility with Service Continuity CATT discussion Rel-17 NR\_MBS-Core

[R2-2008868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008868.zip) Discussion on mobility with MBS Service continuity OPPO discussion Rel-17 NR\_MBS-Core

[R2-2008931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008931.zip) Discussion on mobility with service continuity CHENGDU TD TECH LTD. discussion Late

[R2-2008945](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008945.zip) Reliability and latency handling during NR multicast mobility TCL Communication Ltd. discussion Rel-17

[R2-2008990](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008990.zip) MBS service continuity in mobility Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2009156](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009156.zip) Discussion on sevice continuity during mobility Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2009444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009444.zip) MBS service continuity LG Electronics Inc. discussion

[R2-2009461](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009461.zip) General Considerations on Mobility with Service Continuity Samsung R&D Institute India discussion

[R2-2009674](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009674.zip) UE assistance information for connected mobility Beijing Xiaomi Mobile Software discussion Rel-17 NR\_MBS-Core

[R2-2009743](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009743.zip) Consideration on lossless handover for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2009881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009881.zip) Connected Mode Mobility with Service Continuity Lenovo, Motorola Mobility discussion Rel-17

[R2-2009884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009884.zip) PTP/PTM MRB and RLM Sony discussion Rel-17 NR\_MBS-Core

[R2-2009960](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009960.zip) Mobility for NR MBS Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2010143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010143.zip) MBS Mobility Management Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2010217](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010217.zip) MBS Service Continuity for RRC Connected UE vivo discussion R2-2007035

#### 8.1.2.4 Other

Including e.g. RAN2 aspects of group scheduling.

[R2-2009537](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009537.zip) Group Scheduling and Multiplexing Aspects Samsung R&D Institute India discussion

[R2-2009962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009962.zip) Aspects of Group Sscheduling Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2010218](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010218.zip) Control of transmission area and group scheduling vivo discussion R2-2007036

[R2-2008874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008874.zip) Discussion on group-based scheduling for MBS OPPO discussion Rel-17 NR\_MBS-Core

[R2-2008795](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008795.zip) Discussion on Miscellaneous Issues CATT discussion Rel-17 NR\_MBS-Core

[R2-2008934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008934.zip) RAN2 related aspects for NR MBS CHENGDU TD TECH LTD. discussion Late

[R2-2009315](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009315.zip) Miscellaneous Aspects of MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2009320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009320.zip) Discussion on RAN level QoS handling for MBS service area TCL Communication Ltd. discussion Rel-17

[R2-2009341](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009341.zip) General aspects for NR MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2009445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009445.zip) Consideration on properties of NR for multicastbroadcast LG Electronics Inc. discussion

[R2-2009497](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009497.zip) MBS reception in CONNECTED state Apple discussion Rel-17 NR\_MBS-Core

[R2-2010386](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010386.zip) Discussion on Beam Level MBS Deployment CMCC discussion Rel-17 NR\_MBS-Core

### 8.1.3 Idle and Inactive mode UEs

Including [Post111-e][906][MBS] Idle mode support (CATT)

[R2-2008796](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008796.zip) Summary of Email Discussion Post111-e906 MBS Idle mode support CATT discussion Rel-17 NR\_MBS-Core

[R2-2008797](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008797.zip) Further Discussion on MBS Idle Mode Support CATT, CBN discussion Rel-17 NR\_MBS-Core

[R2-2008869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008869.zip) Discussion on MBS reception of idle or inactive mode UE OPPO discussion Rel-17 NR\_MBS-Core

[R2-2008933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008933.zip) NR MBS for RRC\_IDLE/RRC\_INACTIVE UE CHENGDU TD TECH LTD. discussion Late

[R2-2008940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008940.zip) IDLE/INACTIVE UE support for NR MBS TCL Communication Ltd. discussion Rel-17

[R2-2008991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008991.zip) MBS support for IDLE and INACTIVE states Intel Corporation discussion Rel-17 NR\_MBS-Core

[R2-2009038](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009038.zip) NR Multicast-Broadcast services and configuration for UEs in different RRC states Qualcomm Inc discussion Rel-17 NR\_MBS-Core

[R2-2009157](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009157.zip) MBS for Idle and Inactive mode UE Spreadtrum Communications discussion Rel-17 NR\_MBS-Core

[R2-2009283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009283.zip) Discussion on NR MBS structure allowing service for idle UEs Futurewei discussion Rel-17 NR\_MBS-Core

[R2-2009319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009319.zip) Consideration on MBS support in idle/inactive modes ETRI discussion NR\_MBS-Core

[R2-2009342](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009342.zip) RRC states for MBS reception and Idle/Inactive UE support Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2009441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009441.zip) MBS in IDLEI NACTIVE LG Electronics Inc. discussion

[R2-2009498](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009498.zip) MBS reception in IDLE/INACTIVE state Apple discussion Rel-17 NR\_MBS-Core

[R2-2009555](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009555.zip) IDLE and INACTIVE state UE operation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

[R2-2009579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009579.zip) Discussion on introducing counting and UE interest indication mechanism for UE in idle/inactive mode China Unicom discussion NR\_MBS-Core

[R2-2009611](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009611.zip) IDLE /IN\_ACTIVE UE support of MBS NEC discussion Rel-17 NR\_MBS-Core

[R2-2009744](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009744.zip) Support of Idle and Inactive mode UEs for NR MBS ZTE, Sanechips discussion Rel-17

[R2-2009902](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009902.zip) Open issues on MBS idle mode support MediaTek Inc. discussion Rel-17

[R2-2009953](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009953.zip) MBS reception in Idle and Inactive mode Ericsson discussion Rel-17 NR\_MBS-Core

[R2-2010078](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010078.zip) RRC IDLE/ INACTIVE aspects of NR MBS Samsung discussion

[R2-2010145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010145.zip) On NR multicast and broadcast for RRC\_IDLE/RRC\_INACTIVE UEs Convida Wireless discussion

[R2-2010219](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010219.zip) Discussion on Idle and Inactive mode UEs vivo discussion R2-2007037

[R2-2010387](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010387.zip) Discussion on Idle and Inactive UE MBS Reception CMCC discussion Rel-17 NR\_MBS-Core

[R2-2010644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010644.zip) Discussion on MBS support for UE in IDLE and INACTIVE states TD Tech discussion Rel-17 NR\_MBS-Core Late

## 8.2 MR DC CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: RP-201040)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 3 threads

No documents should be submitted to 8.2. Please submit to.8.2.x

### 8.2.1 Organizational Requirements and Scope

Including work plan and any other rapporteur input.

### 8.2.2 Efficient activation deactivation mechanism for one SCG and SCells

Including outcome of [Post111-e][919][eDCCA] Efficient activation deactivation of SCG (Huawei)

[R2-2008870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008870.zip) Discussion on SCG suspension or deactivation OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009150](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009150.zip) Discussion on efficient activation mechanism for one SCG Spreadtrum Communications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009246.zip) Further consideration on SCG activation and deactivation ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009259](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009259.zip) On Support of Activation/Deactivation for SCG InterDigital discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009284.zip) Further discuss the issues with SCG fast activation Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009357](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009357.zip) Efficient Activation/Deactivation Mechanism for SCG CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009439.zip) Discussion on SCG suspension MediaTek Inc. discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2007867

[R2-2009531](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009531.zip) Open items on SCG deactivation feature Apple discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009547](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009547.zip) On fast deactivation and activation of one SG and SCells Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009590](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009590.zip) Discussion on efficient deactivation mechanism for the SCG China Unicom discussion LTE\_NR\_DC\_enh2-Core

[R2-2009814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009814.zip) SCG deactivation upon SCG addition NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009867](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009867.zip) On SCG deactivatoin and activation Lenovo, Motorola Mobility discussion Rel-17

[R2-2009913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009913.zip) Discussion on efficient SCG activation/deactivation China Telecommunications discussion

[R2-2009942](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009942.zip) Signalling for Rel-17 efficient SCG de-activation/re-activation Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010062.zip) Efficient SCG (de)activation Ericsson discussion Rel-17

[R2-2010087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010087.zip) Progressing SCG deactivation and resumption for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

=> Revised in [R2-2010683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010683.zip)

[R2-2010683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010683.zip) Progressing SCG deactivation and resumption for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010123.zip) [Post111-e][919][eDCCA] Efficient activation deactivation of SCG Discussion on SCG deactivation and activation Huawei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010124.zip) Discussion on SCG deactivation and activation Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010132.zip) Efficient SCG activation/deactivation in MR-DC Qualcomm Incorporated discussion Rel-17

[R2-2010231](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010231.zip) Signalling for SCG activation SHARP Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010283](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010283.zip) Efficient SCG Activation mechanism LG Electronics discussion Rel-17 R2-2007986

[R2-2010290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010290.zip) Activation and deactivation mechanism for SCG and SCells vivo discussion Rel-17

[R2-2010372](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010372.zip) Considerations on SCG activation or deactivation CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

### 8.2.3 Conditional PSCell change addition

Including outcome of [Post111-e][920][eDCCA] Condtional PSCell Change and Addition (CATT)

[R2-2009088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009088.zip) Conditional PSCell change / addition vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009158.zip) CPC configuration number restriction Spreadtrum Communications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009260.zip) Coexistence of CHO and CPC InterDigital discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009285.zip) CPAC failure handling discussio Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009358](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009358.zip) Discussion on Further CPAC Enhancements CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009359](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009359.zip) Introduction of CPA and MN Initiated Inter-SN CPC CATT draftCR Rel-17 37.340 16.3.0 B LTE\_NR\_DC\_enh2-Core

[R2-2009360](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009360.zip) Summary of [Post111-e][920][eDCCA] Conditional PSCell Change and Addition (CATT) CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009379](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009379.zip) Discussion on conditional PSCell addition/change ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009475.zip) Discussion on conditional PSCell change and addition Apple discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009592.zip) Discussion on inter-SN conditional PSCell change (SN initiated) China Unicom discussion LTE\_NR\_DC\_enh2-Core

[R2-2009596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009596.zip) Discussion on conditional PSCell change and addition OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009771](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009771.zip) On Rel-17 Conditional PSCell Addition and Change (CPAC) Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009815.zip) Conditional PSCell addition procedure NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009816](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009816.zip) Framework of Inter-SN Conditional PSCell change NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2009868](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009868.zip) Issues on inter-SN CPC Lenovo, Motorola Mobility discussion Rel-17

[R2-2010003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010003.zip) Conditional PSCell Change / Addition Ericsson discussion LTE\_NR\_DC\_enh2-Core

[R2-2010088](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010088.zip) Progressing conditional configuration for R17 Samsung Telecommunications discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010125](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010125.zip) Discussion on support of conditional PSCell change/addition Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010130.zip) Configuration of Conditional PSCell addition/change Qualcomm Incorporated discussion Rel-17

[R2-2010248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010248.zip) Discussion on SN initiated CPC and CPAC Execution ETRI discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010282.zip) Considerations of CPAC in Rel-17 LG Electronics discussion Rel-17 R2-2007985

[R2-2010373](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010373.zip) Discussions about CPAC procedures CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010529.zip) Regarding inter MN-SN signaling design for Conditional PSCell Addition Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

[R2-2010626](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010626.zip) Further consideration for Conditional PSCell addition and change NTT DOCOMO INC. discussion Rel-17 LTE\_NR\_DC\_enh2-Core Late

## 8.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-201309)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

[R2-2008831](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008831.zip) Discussion on various scenarios of UE switching from network for activities on another network China Telecommunications discussion Rel-17

[R2-2008832](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008832.zip) Support of UE capabilities coordination for Dual Tx/Dual Rx Multi-USIM UEs China Telecommunications discussion

### 8.3.1 Organizational Requirements and Scope

Including work plan and any other rapporteur input.

Including outcome of [Post111-e][917][NR][Multi-SIM] Work prioritization for Multi-SIM (vivo)

[R2-2008754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008754.zip) LS on System support for Multi-USIM devices (S2-2006037; contact: Intel) SA2 LS in Rel-17 FS\_MUSIM To:RAN2, RAN3, SA3

[R2-2009325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009325.zip) Summary of [Post111-e][917][Multi-SIM] Multi-Sim vivo discussion

[R2-2009885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009885.zip) Discussion on Multi SIM Sony, Convida Wireless discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009943.zip) [DRAFT] Reply LS on System support for Multi-USIM devices Intel Corporation LS out Rel-17 LTE\_NR\_MUSIM-Core To:SA2 Cc:RAN3

[R2-2010689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010689.zip) Reply to LS S2-2006037 on System support for Multi-USIM devices (S3-202687; contact: Nokia) SA3 LS in Rel-17 FS\_MUSIM To:SA2, RAN2, RAN3

### 8.3.2 Paging collision avoidance

Including discussion on enhancement(s) to address the collision due to reception of paging when the UE is in IDLE/INACTIVE mode in both the networks associated with respective SIMs [RAN2]

[R2-2008871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008871.zip) Discussion on paging collision issue for multi-SIM OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2008955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008955.zip) Discussion on Paging Collision Avoidance CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009264.zip) Analysis of solutions for paging collision Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2009326](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009326.zip) Evaluation on Paging Collision Solutions vivo discussion

[R2-2009505](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009505.zip) MUSIM Page Collision Avoidance Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009538](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009538.zip) Effective Solution for Paging Collision Avoidance Samsung R&D Institute India discussion

[R2-2009556](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009556.zip) Preventing paging collisions for Multi-SIM Qualcomm Incorporated discussion

[R2-2009622](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009622.zip) Consideration on the Paging Collision ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009659.zip) Consideration on Multi-SIM China Telecom discussion

[R2-2009692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009692.zip) Definition and solution for paging collision, RRC Inactive, SI change Lenovo, Motorola Mobility discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009739](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009739.zip) Guidance for SA2 on Solution #16 for Key Issue 2 VODAFONE Group Plc discussion Withdrawn

[R2-2009779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009779.zip) Discussion of the paging collision problem Xiaomi Communications discussion

[R2-2009780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009780.zip) Guidance for SA2 on Solution #16 for Key Issue 2 VODAFONE Group Plc discussion

[R2-2009786](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009786.zip) Support for Multi-SIM Devices - Paging Collision MediaTek Inc. discussion

[R2-2009851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009851.zip) On Paging Collision Avoidance Huawei, HiSilicon discussion Rel-17

[R2-2009940](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009940.zip) “Effective” solution for paging collision avoidance Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009971.zip) Response to SA2 LS S2-2006037: Paging Repetition in RAN and UE Implementation-based solution aspects VODAFONE Group Plc discussion

[R2-2010284](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010284.zip) Consideration of Paging Collision Avoidance LG Electronics discussion Rel-17

[R2-2010427](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010427.zip) UE indication of paging collision for Multi-SIM ASUSTeK discussion LTE\_NR\_MUSIM-Core

[R2-2010445](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010445.zip) Considerations for Paging Collision for Multi-SIM UEs Charter Communications, Inc discussion Rel-17

R2-2010482 Consideration on slice specific cell selection and reselection ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice Withdrawn

[R2-2010534](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010534.zip) Paging collision avoidance Ericsson discussion LTE\_NR\_MUSIM-Core

[R2-2010596](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010596.zip) RAN2 Impacts of Multi-USIM Paging Futurewei Technologies discussion

### 8.3.3 UE notification on network switching for multi-SIM

Including discussion on mechanism for UE to notify Network A of its switch from Network A (for MUSIM purpose)

[R2-2008872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008872.zip) Discussion on graceful leaving and busy indication OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2008956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008956.zip) Discussion on UE Notification on Network Switching CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009265.zip) Scenarios and Impact analysis for Switching Notification Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2009327](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009327.zip) UE notification on network switching for multi-SIM vivo discussion

[R2-2009328](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009328.zip) Discussion on Busy Indication Procedure vivo discussion

[R2-2009506](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009506.zip) MUSIM Network Switching Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009557](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009557.zip) Switching between two links for Multi-SIM Qualcomm Incorporated discussion

[R2-2009623](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009623.zip) Consideration on the Switching Notification Procedure ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009658.zip) RRC-based coordinated switch for multi-USIM UE NEC discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009781](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009781.zip) Discussion of the UE switching problem Xiaomi Communications discussion

[R2-2009787](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009787.zip) Support for Multi-SIM Devices - Notification upon Network Switching MediaTek Inc. discussion

[R2-2009856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009856.zip) Switching Notification in MUSIM Lenovo, Motorola Mobility discussion Rel-17

[R2-2009941](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009941.zip) Regarding UE notification on network switching for multi-SIM Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2010246](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010246.zip) On coordinated switch from NW for MUSIM device Huawei, HiSilicon discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2010286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010286.zip) SIM Switching Handling in MUSIM LG Electronics discussion Rel-17

[R2-2010350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010350.zip) Discussion on switching mechanism for multi-SIM Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2010428](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010428.zip) Mechanism for UE to notify network switching ASUSTeK discussion LTE\_NR\_MUSIM-Core

[R2-2010477](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010477.zip) Network Switching for Multi-SIM UEs Charter Communications, Inc discussion Rel-17

R2-2010481 Consideration on the slice specific RACH configuration ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice Withdrawn

[R2-2010544](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010544.zip) Graceful leaving for a MultiSIM device Ericsson discussion LTE\_NR\_MUSIM-Core R2-2007602

[R2-2010620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010620.zip) RAN2 impacts of multi-SIM UE notifications on network switching Futurewei Technologies discussion

### 8.3.4 Paging with service indication

Including discussions on mechanism for an incoming page to indicate to the UE whether the service is voLTE/VoNR (pending SA2 feedback).

This agenda item may be deprioritized in this meeting.

[R2-2008873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008873.zip) Discussion on paging cause for multi-SIM OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2008957](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008957.zip) Discussion on Paging with Service Indication CATT discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009153](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009153.zip) Discussion on the open issues of paging transmission Spreadtrum Communications discussion Rel-17 LTE\_NR\_MUSIM

[R2-2009266](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009266.zip) On RAN impacts for on paging cause Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2009507](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009507.zip) MUSIM Paging with Service Indication Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009558](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009558.zip) Paging prioritization and response for MUSIM Qualcomm Incorporated discussion

[R2-2009624](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009624.zip) Consideration on the Paging Cause ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2009791](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009791.zip) Support for Multi-SIM Devices - Paging Cause MediaTek Inc. discussion

[R2-2009852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009852.zip) Discussion on the paging with service indication Huawei, HiSilicon discussion Rel-17

[R2-2010250](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010250.zip) Discussion on support of paging cause for multi-SIM Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2010285](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010285.zip) Consideration on Paging Cause Indication LG Electronics discussion Rel-17

[R2-2010416](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010416.zip) Discussion of the paging cause support for MUSIM Xiaomi Communications discussion

[R2-2010535](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010535.zip) Introduction of a Paging cause indication Ericsson discussion LTE\_NR\_MUSIM-Core R2-2007603

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: RP-201293)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2-3 threads

### 8.4.1 Organizational Requirements and Scope

Including work plan and any other rapporteur input.

[R2-2009291](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009291.zip) Updated workplan for Rel-17 IAB Qualcomm Incorporated (WI Rapporteur) Work Plan Rel-17 R2-2006964

### 8.4.2 Enhancements to improve topology-wide fairness multi-hop latency and congestion mitigation

Including [Post111-e][902][eIAB] Enhancements to improve topology-wide fairness, multi-hop latency and congestion mitigation (Samsung)

* [AT112-e][030][eIAB] Fairness Latency Congestion (Samsung)

Scope: A) Confirm easy agreeable proposals captured in R2-2009073 (short deadline), make modifications to the proposals if needed for final agreement.

B) From R2-2009073 and input contributions below put applicable solution proposals on the table, with a short principal solution description, how the solution is intended to help and possibly comments on complexity, if applicable. In case there are many solutions, initial focus could be on promising and widely proposed/supported solutions. Further discussion and decision making is expected on-line week 2.

Intended outcome: Report

Deadline: Ready Nov 11 (for on-line discussion Nov 11), Intermediate deadlines by Rapporteur.

[R2-2009073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009073.zip) Report from email discussion [Post111-e][902][eIAB] Samsung Electronics GmbH report

[R2-2008848](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008848.zip) Consideration on topology-wide fairness, multi-hop latency and congestion mitigation CATT discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009329.zip) Discussion on congestion, RLF, latency and fairness handling vivo discussion

[R2-2009388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009388.zip) Discussion on topology-wide fairness multi-hop latency and congestion mitigation ZTE, Sanechips discussion Rel-17

[R2-2009651](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009651.zip) Enhancements for topology-wide fairness, multi-hop latency and congestion mitigation Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009667](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009667.zip) Discussion on topology-wide fairness, multi-hop latency and congestion mitigation LG Electronics discussion NR\_IAB\_enh-Core

[R2-2010099](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010099.zip) Rel. 17 IAB enhancements for fairness, multi-hop latency reduction, and congestion mitigation Futurewei Technologies discussion R2-2007840

[R2-2010159](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010159.zip) On Topology-wide Fairness, Multi-hop Latency and Congestion Mitigation Ericsson discussion NR\_IAB\_enh-Core

[R2-2009006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009006.zip) Discussion on the fairness enforcement for IAB Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009089](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009089.zip) On topology-wide fairness Samsung Electronics GmbH discussion

[R2-2009200](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009200.zip) Discussion on Topology-wide fairness and flow control enhancement Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009293](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009293.zip) Simulations on fairness support in IAB topology Qualcomm Incorporated discussion Rel-17 R2-2006965

[R2-2009509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009509.zip) Fairness metrics in multi-hop eIAB networks Apple discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009886.zip) Topology-wide fairness enhancements Sony discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009090.zip) Enhancements to multi-hop latency and congestion mitigation Samsung Electronics GmbH discussion

[R2-2009261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009261.zip) On multi-hop latency and congestion mitigation InterDigital discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009798](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009798.zip) Hop-by-hop flow control in uplink Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009332.zip) Multi-hop scheduling and local routing enhancements for IAB AT&T discussion

[R2-2010489](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010489.zip) Discussion on congestion mitigation enhancements ETRI discussion

### 8.4.3 Topology adaptation enhancements

Including [Post111-e][903][eIAB] Topology adaptation enhancements RAN2 scope (Qualcomm)

* [AT112-e][031][eIAB] Topology Adaptation (QC)

Scope: A) Confirm at least easy agreeable proposals captured in R2-2009292 (short deadline), make modifications to the proposals if needed for final agreement.

B) From R2-2009292 and input contributions below put applicable solution proposals on the table, with a short principal solution description, how the solution is intended to help and possibly comments on complexity, if applicable. In case there are many solutions, initial focus could be on promising and widely proposed/supported solutions. Further discussion and decision making is expected on-line week 2.

Intended outcome: Report

Deadline: Ready Nov 11 (for on-line discussion Nov 11), Intermediate deadlines by Rapporteur.

[R2-2009292](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009292.zip) Report of email discussion on topology adaptation enhancements RAN2 scope Qualcomm Incorporated discussion Rel-17

[R2-2008849](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008849.zip) Consideration on Topology adaptation enhancements CATT discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009007.zip) CHO for UE or IAB-MT on migration Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009201](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009201.zip) Enhancements to establish efficient topologies and backhaul failure recovery Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009262](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009262.zip) On IAB Topology Adaptation InterDigital discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009330](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009330.zip) Consideration of Inter-CU IAB Migration vivo discussion

[R2-2009387](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009387.zip) Considerations on topology adaptation enhancements ZTE, Sanechips discussion Rel-17

[R2-2009422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009422.zip) On topology adaptation enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core Revised

[R2-2009508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009508.zip) Better Cell Selection for eIAB nodes for improved topology adaptation Apple discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009610](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009610.zip) Topology optimization in IAB NEC discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009652.zip) Consideration of topology adaptation enhancement for R17-IAB Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

[R2-2009887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009887.zip) Topology adaptation enhancements in IAB Sony discussion Rel-17 NR\_IAB\_enh-Core

[R2-2010137](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010137.zip) Consideration on avoiding RLF recovery at former descendent nodes Sharp discussion Rel-17

[R2-2010158](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010158.zip) On WI scope and solutions for topology adaptation and inter-CU migration Ericsson discussion NR\_IAB\_enh-Core

[R2-2010233](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010233.zip) Consideration of topology adaptation enhancements for eIAB Kyocera discussion Rel-17

[R2-2010441](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010441.zip) BAP Packet Duplication and BH RLF Indication Enhancements LG Electronics France discussion NR\_IAB\_enh-Core

[R2-2010490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010490.zip) RAN2 impacts of Rel.17 IAB topology adaptation enhancements Futurewei Technologies discussion R2-2007984

R2-2010670 On topology adaptation enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core Withdrawn

[R2-2010671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010671.zip) On topology adaptation enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core [R2-2009422](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009422.zip)

### 8.4.4 Duplexing enhancements RAN2 scope

Expected to not be treated at this meeting, 1 tdoc in addition to tdoc limitation is allowed for this sub-AI for information exchange.

[R2-2009091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009091.zip) Views on duplexing enhancements Samsung Electronics GmbH discussion

[R2-2009389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009389.zip) Discussion on duplexing enhancement ZTE, Sanechips discussion Rel-17

[R2-2009653](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009653.zip) Duplexing enhancements for R17 IAB Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

## 8.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-201310)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2-3 threads

Focus to clarify the scope, understand the dependencies to other groups, get proposals on the table.

### 8.5.1 Organizational

Rapporteur input

[R2-2008720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008720.zip) LS on propagation delay compensation enhancements (R1-2007446; contact: Huawei) RAN1 LS in Rel-17 NR\_IIOT\_URLLC\_enh-Core To:RAN2

[R2-2010692](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010692.zip) LS on Use of Survival Time for Deterministic Applications in 5GS (S2-2007880; contact: Nokia) SA2 LS in Rel-17 FS\_IIOT To:RAN2, RAN3 Cc:SA1

[R2-2009754](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009754.zip) Updated Work Plan for NR IIoT/URLLC Nokia Work Plan Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 8.5.2 Enhancements for support of time synchronization

Including requirements and scope. Including [Post111-e][924][R17 URLLC/IIoT] Propagation delay for TSN (Nokia)

[R2-2008855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008855.zip) Discussion on enhancements for support of time synchronization Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008856](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008856.zip) Draft Reply LS on propagation delay compensation enhancements Huawei, HiSilicon LS out Rel-17 NR\_IIOT\_URLLC\_enh-Core To:RAN1

[R2-2008880](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008880.zip) Propagation Delay Compensation Enhancements Ericsson discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008972.zip) Propagation Delay Compensation for TSN Qualcomm Incorporated discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009060](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009060.zip) Further consideration on time synchronization and PDC in TSN ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-17

[R2-2009118](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009118.zip) On propagation delay compensation MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2007611

[R2-2009270](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009270.zip) Enhancements for Propagation Delay Compensation and Mobility Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009561](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009561.zip) Consideration of time synchronization enhancement for TSN OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009672.zip) Mobility related issues for the propagation delay compensation Beijing Xiaomi Mobile Software discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009755](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009755.zip) Summary of email discussion [Post111-e][924][R17 URLLC/IIoT] Propagation delay for TSN (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009756](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009756.zip) [DRAFT] Reply LS on propagation delay compensation enhancements Nokia, Nokia Shanghai Bell LS out Rel-17 NR\_IIOT\_URLLC\_enh-Core To:RAN1

[R2-2009757](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009757.zip) Discussion on propagation delay compensation mechanisms Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009865](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009865.zip) Considerations on time synchronization enhancement Lenovo, Motorola Mobility discussion Rel-17

[R2-2009915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009915.zip) Discussion on enhancements for TSN time synchronization China Telecommunications discussion

[R2-2010173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010173.zip) Mobility aspects of time synchronization Sequans Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010211.zip) Discussion on the propagation delay compensation vivo discussion R2-2007145

[R2-2010381](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010381.zip) Enhancements for support of time synchronization for TSN CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010413.zip) Discussion on propagation delay compensation for support of time synchronization LG Electronics Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010523.zip) RAN2 Aspects on Timing Synchronization Samsung discussion Rel-17

[R2-2010532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010532.zip) Uplink time synchronization NTT DOCOMO, INC. discussion Rel-17

### 8.5.3 Uplink enhancements for URLLC in unlicensed controlled environments

RAN2 aspects related to URLLC in unlicensed controlled environments. Initial discussion on potential impacts, including requirements and scope

[R2-2008853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008853.zip) Discussion about uplink enhancements for URLLC in unlicensed controlled environment Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008859.zip) Co-existence of NR-U and IIOT in R16 CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2008860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008860.zip) Protocol selection for IIoT on unlicensed spectrum CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2008881](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008881.zip) Harmonizing UL CG enhancements in NR-U and URLLC Ericsson discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008974.zip) CG Harmonization in Unlicensed Controlled Environment Qualcomm Incorporated discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008976](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008976.zip) Uplink enhancements for URLLC in unlicensed controlled environments Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009117](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009117.zip) On configured grant harmonization MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009501](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009501.zip) Potential UL enhancements for URLLC in unlicensed environments Apple discussion Rel-17

[R2-2009562](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009562.zip) Consideration on URLLC over NRU OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009598](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009598.zip) Enhancements for URLLC in unlicensed controlled environments Lenovo, Motorola Mobility discussion Rel-17

[R2-2009758](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009758.zip) Uplink CG Harmonization for NR-U and URLLC Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009900.zip) Considerations in unlicensed URLLC Sony Europe B.V. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Perf

[R2-2009912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009912.zip) Considerations on the harmonization of enhanced configured grant on shared spectrum channel ZTE Corporation, Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009914.zip) Discussion on CG harmonization for IIoT in unlicensed spectrum Google Inc. discussion

[R2-2010110](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010110.zip) IIoT operation in unlicensed controlled environments InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010212.zip) Harmonizing CG enhancements in NR-U and URLLC/IIoT vivo discussion R2-2007146

[R2-2010374](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010374.zip) Discussion on CG harmonization for URLLC in unlicensed controlled environments CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010437](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010437.zip) Consideration on timers for URLLC/IIoT in unlicensed controlled environments III discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2010439](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010439.zip) Harmonized support of IIOT on unlicensed band LG Electronics Inc. discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2010524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010524.zip) Uplink Enhancements for Unlicensed Spectrum Samsung discussion Rel-17

### 8.5.4 RAN enhancements based on new QoS

RAN enhancements based on new QoS related parameters if any, e.g. survival time, burst spread, decided in SA2. [RAN2, RAN3]

[R2-2008854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008854.zip) Discussion on RAN enhancements based on new QoS related parameters Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008861.zip) RAN enhancement based on New QoS CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2008882](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008882.zip) RAN enhancements based on new QoS related parameters Ericsson discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2008985](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008985.zip) RAN Enhancements to Support New QoS Parameters for TSN Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009062](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009062.zip) New QoS related parameters in TSN ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-17

[R2-2009130](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009130.zip) U-plane aspect for RAN enhancement to support new QoS Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009179.zip) Concept and use of survival timer Samsung Electronics GmbH discussion

[R2-2009563](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009563.zip) Consideration on RAN enhancement based on new QoS OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009671](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009671.zip) RAN impacts of the IIOT QoS parameters Beijing Xiaomi Mobile Software discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009759.zip) RAN Enhancement for Survival Time Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2009870](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009870.zip) Discuss on the mechanism to guarantee the survival time Lenovo, Motorola Mobility discussion Rel-17

[R2-2010111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010111.zip) Enhancements based on new QoS requirements InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010213.zip) Discussion on IIOT QoS impacts in RAN vivo discussion

[R2-2010375](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010375.zip) Discussion on the support of RAN enhancement for new QoS parameters CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010438](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010438.zip) Discussion on RAN enhancements based on Survival Time III discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2010444](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010444.zip) Support of determinstic IIOT Traffic LG Electronics UK discussion NR\_IIOT\_URLLC\_enh-Core

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-201305)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.6.1 Organizational

In coming LSs, rapporteur input for email discussions summaires etc (tdocs in this don’t count towards tdoc limit). Including [Post111-e][925][R17 Small Data] Agreeable details of RRC-based solution (RACH and CG) (ZTE)

[R2-2009189](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009189.zip) Small Data] Agreeable details of RRC-based solution (RACH and CG) Rapporteur (ZTE) report

### 8.6.2 Security aspects

[R2-2008958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008958.zip) Discussion on the Security for Small Data Transmission vivo discussion

[R2-2008992](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008992.zip) Security aspect for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009012](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009012.zip) Security aspects for small data transmission in inactive state OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009366.zip) Security aspects on SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009490](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009490.zip) Security aspect on SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009920](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009920.zip) Security aspects of SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2009931](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009931.zip) Discussion about security aspects for small data transmission Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009991](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009991.zip) Draft LS on Need of MAC-I for UE authentication NEC Telecom MODUS Ltd. LS out To:SA3

### 8.6.3 Control plane aspects

Support of RRC-less SDT, SDT type selection and switch between SDT and normal resume procedure, Cell reselection and failure handling, etc, except security aspects. Including [Post111-e][926][R17 Small Data] Context fetch (Ericsson)

[R2-2008959](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008959.zip) Duscussion on RRC-Controlled Small Data Transmission vivo discussion

[R2-2008993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008993.zip) SDT control plane procedures and failure handling Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009013](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009013.zip) Discussion on Control plane aspects for small data transmission OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009055](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009055.zip) RRC-less SDT over CG MediaTek Inc., Apple discussion

[R2-2009095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009095.zip) Control Plane Aspects of SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009131](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009131.zip) Open issue in [Post111-e][926]: TAT handling Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009132](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009132.zip) Identified issue in [Post111-e][926]: CA and PDCP CA duplication Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009151](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009151.zip) Discussion on the general aspects for small data transmission Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009190](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009190.zip) Control plane aspects of SDT ZTE Corporation, Sanechips discussion

[R2-2009316](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009316.zip) Discussion on RRC procedure for small data transmission SHARP Corporation discussion NR\_SmallData\_INACTIVE-Core

[R2-2009344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009344.zip) Timer configuration for SDT failure detection ETRI discussion

[R2-2009347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009347.zip) Differentiation and triggering of SDT procedure Potevio discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009367.zip) Considerations on general aspects and subsequent SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009460.zip) Anchor relocation for Small Data Transmission LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

[R2-2009491](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009491.zip) Control plane aspects on SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009643](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009643.zip) Discussion on how to handle cell reselection during T319 for the case of SDT ITRI discussion NR\_SmallData\_INACTIVE-Core

[R2-2009656](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009656.zip) Control plane issues for SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009675.zip) Discussion on the RRC-less SDT Beijing Xiaomi Mobile Software discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009873](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009873.zip) Analysis on RA selection and RNAU Lenovo, Motorola Mobility discussion Rel-17

[R2-2009875](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009875.zip) Consideration on RRC-less SDT and subsequent data transmission Lenovo, Motorola Mobility discussion Rel-17

[R2-2009888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009888.zip) Discussion on context fetch, anchor relocation and subsequent SDT in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009919](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009919.zip) SDT control plane aspects for RACH based schemes Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2009930](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009930.zip) SDT aspects common for RACH-based and CG-based SDT scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009966.zip) RRC aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009967](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009967.zip) Report of [Post111-e][926][SmallData] ContextFetch\_email Ericsson (rapporteur) report Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009978.zip) Support of RRC-less SDT NEC Telecom MODUS Ltd. discussion

[R2-2010008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010008.zip) Control plane aspects on NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010109.zip) Small data transmission failure and cell reselection InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010388.zip) SDT type selection and switch procedure CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010429](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010429.zip) Discussion on subsequent small data transmission ASUSTeK discussion NR\_SmallData\_INACTIVE-Core

### 8.6.4 Aspects specific to RACH based schemes

RA type selection, Separate RA resource pool for SDT

Details of context fetch, support of anchor relocation and no anchor relocation and procedural aspects related to RAN2

[R2-2008960](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008960.zip) Supporting Small Data Transmission via RA Procedure vivo discussion

[R2-2008994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008994.zip) RACH selection and User plane aspects with and without anchor relocation Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009014.zip) Discussion on RACH based small data transmission OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009056](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009056.zip) RA-based SDT MediaTek Inc. discussion

[R2-2009096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009096.zip) Criteria for performing 2 step or 4 step RACH based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009097.zip) RACH configuration for Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009119](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009119.zip) Timer issues for subsequent data transmissions PANASONIC R&D Center Germany discussion

[R2-2009152](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009152.zip) Discussion on small data transmission for RACH-based scheme Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009191](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009191.zip) RACH based small data transmission ZTE Corporation, Sanechips discussion

[R2-2009193](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009193.zip) Context fetch and data forwarding for SDT ZTE Corporation, Sanechips discussion

[R2-2009368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009368.zip) Analysis on SDT without Context relocation CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009457.zip) RACH-based Small Data Transmission LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

[R2-2009492](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009492.zip) Context fetch procedure for SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009646.zip) Discussion on RA-based Small Data Transmission TCL Communication Ltd. discussion Rel-17

[R2-2009657](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009657.zip) Subsequent data transmission for SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009799](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009799.zip) Details on RACH specific schemes Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009872](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009872.zip) The basic principle for small data transmissions Lenovo, Motorola Mobility discussion Rel-17

[R2-2009889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009889.zip) Details of RA-based schemes for SDT in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009963](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009963.zip) Details of RACH based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009965.zip) Subsequent transmissions after initial SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010006](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010006.zip) Discussion on RACH based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010106](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010106.zip) RACH-based SDT selection and configuration InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010232.zip) 2-step RACH and 4-step RACH selection criteria for SDT Xiaomi discussion

[R2-2010280](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010280.zip) Small data transmission with RA-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010281](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010281.zip) Small data transmission with CG-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010389.zip) Some consideration on RACH based scheme CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010390.zip) Anchor relocation and context fetch CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010430](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010430.zip) Data forwarding without UE DRB configuration ASUSTeK discussion NR\_SmallData\_INACTIVE-Core

[R2-2010431](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010431.zip) Discussion on initiating SDT based on radio condition ASUSTeK discussion NR\_SmallData\_INACTIVE-Core

### 8.6.5 Aspects specific to CG based schemes

Configuration of CG resources, Validity of CG resources, handling of beam selection for CG etc

[R2-2008935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008935.zip) Handling of subsequent small data transmission in RRC\_INACTIVE PANASONIC R&D Center Germany discussion

[R2-2008961](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008961.zip) Supporting Small Data Transmission via CG configuration vivo discussion

[R2-2008995](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008995.zip) Handling of Configured grant for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009015](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009015.zip) Discussion on CG based small data transmission OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009057](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009057.zip) CG-based SDT MediaTek Inc. discussion

[R2-2009094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009094.zip) Configured Grant based Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009192](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009192.zip) Configured grant based small data transmission ZTE Corporation, Sanechips discussion

[R2-2009345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009345.zip) SDT handling in RRC\_INACTIVE state ETRI discussion

[R2-2009350](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009350.zip) Discussion on aspects specific to CG based SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009369](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009369.zip) Analysis on SDT Procedures using CG CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009458.zip) Coexistence of CG and RACH configuraiton for SDT LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

[R2-2009459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009459.zip) CG resources for Small Data Transmission LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

[R2-2009493](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009493.zip) CG based SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009649](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009649.zip) TAT maintenance for CG based SDT ITL discussion Rel-17

[R2-2009874](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009874.zip) Consideration on CG based small data transmission Lenovo, Motorola Mobility discussion Rel-17

[R2-2009890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009890.zip) Details of CG-based schemes for SDT in NR Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009964](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009964.zip) Details of CG based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2009973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009973.zip) Discussion on CG-based Small Data Transmissions NEC Telecom MODUS Ltd. discussion

[R2-2010007](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010007.zip) Discussion on CG based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010107.zip) CG-based SDT selection and configuration InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010108.zip) Beam selection and maintenance for CG-based SDT InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010391.zip) Consideration on CG based SDT CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2010432](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010432.zip) Association between Pre-configured PUSCH resources and beam ASUSTeK discussion NR\_SmallData\_INACTIVE-Core

## 8.7 NR Sidelink relay SI

(FS\_NR\_SL\_relay; leading WG: RAN2; REL-17; WID: RP-201474)

Time budget: 1.5 TU

Tdoc Limitation: 5 tdocs

Email max expectation: 4 threads

### 8.7.1 Organizational

TR updates, rapporteur inputs, other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2008760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008760.zip) LS on Direct Discovery and Relay in SA2 (S2-2006587; contact: Oppo) SA2 LS in Rel-17 FS\_5G\_ProSe To:RAN2 Cc:RAN1

[R2-2008926](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008926.zip) [Draft] Reply LS on Direct Discovery and Relay CATT LS out Rel-17 5G\_V2X\_NRSL-Core To:SA2 Cc:RAN1

[R2-2010676](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010676.zip) [Draft] Reply LS on Direct Discovery and Relay OPPO LS out Rel-17 FS\_NR\_SL\_relay To:SA2 Cc:RAN1

[R2-2010693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010693.zip) LS on SA2 progress on UE-to-Network Relay and UE-to-UE Relay (S2-2007945; contact: OPPO) SA2 LS in Rel-17 FS\_5G\_ProSe To:RAN2, SA3

### 8.7.2 Scope requirements and scenarios

Refinements to the contents of the TR regarding high-level requirements and assumptions on supported scenarios.

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008779](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008779.zip) Left issues on Scenarios for sidelink relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008921](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008921.zip) Further Clarification on the Scenarios for NR Sidelink Relay CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008939.zip) Work planning of R17 SL relay OPPO Work Plan Rel-17 FS\_NR\_SL\_relay

[R2-2009584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009584.zip) Further discussion on scope and scenarios of SL relay vivo discussion Rel-17

[R2-2009693](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009693.zip) Coverage Extension using Relays Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009694.zip) QoS support when using Relays Lenovo, Motorola Mobility discussion FS\_NR\_SL\_relay

[R2-2010658](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010658.zip) Scenarios for NR sidelink relay LG Electronics Inc. discussion Rel-17

### 8.7.3 Relaying Mechanisms and their characteristics

Start to populate the TR. Put on the table mechanisms, their characteristics at least with respect to aspects A-F for L2 and L3 relay etc.

#### 8.7.3.1 Protocol stacks and procedures

Including report of [Post111-e][627][Relay] Remaining issues on L2 architecture

[R2-2008777](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008777.zip) Left issues on CP procedure for L2 U2N Relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008922](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008922.zip) On-demand SI Delivery for Remote UE CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008962](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008962.zip) Discussion on remaining issues of L3 relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008964](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008964.zip) Discussion on remaining issues of L2 relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008966](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008966.zip) RRC state and essential RRC procedures in L2 U2N relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008983](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008983.zip) Open aspects of L2 relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009030](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009030.zip) Discussion on remaining issues on L2 relay architecture ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009033](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009033.zip) Discussion on Remaining issues on L3 relay ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009122.zip) Email Report of Post111-e 627 Relay Remaining issues on L2 architecture MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009123](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009123.zip) Adaptation layer for PC5 at L2 UE-to-Network Relay MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009124](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009124.zip) Overhead in N3IWF based L3 relaying architecture MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009144.zip) Remaining issues on the adaptation layer for Layer-2 Relay Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009202](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009202.zip) Control Plane Aspects for UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009203](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009203.zip) Connection Establishment and Maintenance for L2 Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009206](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009206.zip) Discussion on L2 Relay Architecture and QoS InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009230](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009230.zip) RAN2 impacts introduced by Layer 2 SL relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009302](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009302.zip) QoS Control with Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009525](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009525.zip) Discussion on data forwarding mechanisms for Layer 2 UE-to-UE Relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009526.zip) Discussion on RRC\_INACTIVE remote UE Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009585](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009585.zip) Open issues on Layer-2 relay vivo discussion Rel-17

[R2-2009660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009660.zip) L2 relaying open issues Samsung Electronics GmbH discussion

[R2-2009661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009661.zip) Need for relaying of on-demand SI Samsung Electronics GmbH discussion

[R2-2009720](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009720.zip) Discussion on L3 UE-to-NW relay architecture Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009891.zip) SL L2 architectrure Sony discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009901](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009901.zip) Protocol stack design for U2N relay and U2U relay case Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009939](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009939.zip) Discussion on L2 based UE-to-Network Nokia, Nokia Shanghai Bell discussion FS\_NR\_SL\_relay

[R2-2010129](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010129.zip) Needed Information in Adaptation Layer Header for L2 UE-to-UE Relay Convida Wireless discussion Rel-17

[R2-2010344](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010344.zip) Remaining issues on protocol stacks and procedures for L2 relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010345](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010345.zip) NAS transmission and QoS management in L3 U2N relay Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

#### 8.7.3.2 Service continuity

Including report of [Post111-e][621][Relay] Service continuity

[R2-2008780](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008780.zip) Left issues on Service continuity for L2 U2N relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008923.zip) Further Clarification on the L2 Service Continuity CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008967](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008967.zip) Remaining issues on the mobility procedures for L2 relay Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009031](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009031.zip) Discussion on Service continuity ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009068](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009068.zip) L3 relay enhancements to improve path switching Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009125](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009125.zip) Service Continuity for L2 Relay and L3 Relay MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009145](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009145.zip) Discussion on service continuity for Layer-2 UE-to-Network Relay Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009171](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009171.zip) Service continuity via L3 UE-to-Network relaying Samsung Electronics discussion Rel-17

[R2-2009177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009177.zip) Service Continuity Scenarios and AS-Layer Procedures Fraunhofer HHI, Fraunhofer IIS discussion Rel-17

[R2-2009271](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009271.zip) Further details on Service Continuity for Relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009301](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009301.zip) Service Continuity with Sidelink Relay Futurewei discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009476.zip) Discussion on service continuity for layer 2 UE to NW relay Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009586](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009586.zip) Service continuity for L2 and L3 relay vivo discussion Rel-17

[R2-2009721](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009721.zip) Service continuity procedure and scenarios for sidelink relay Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009938](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009938.zip) Service Continuity for UE2UE Relay Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010329](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010329.zip) Clarification of remote UE mobility ETRI discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010346](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010346.zip) Summary email discussion [621][Relay] of Service continuity Huawei, HiSilicon report Rel-17 FS\_NR\_SL\_relay

[R2-2010469](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010469.zip) Discussion on service continuity Xiaomi communications discussion

[R2-2010588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010588.zip) Service continuity for SL relay LG Electronics Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010659](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010659.zip) Service continuity for Remote UE LG Electronics Inc. discussion Rel-17

#### 8.7.3.3 Relay selection

Including report of [Post111-e][622][Relay] Relay selection and reselection

[R2-2008924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008924.zip) Further Discussion on NR Sidelink Relay Selection and Reselection CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008987.zip) Further details on relay reselection Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009029](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009029.zip) Discussion on Relay initiation and (re-)selection ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009069](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009069.zip) Discussion on relay selection and reselection Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009148.zip) Discussion on relay selection and reselcetion Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009172](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009172.zip) Consideration on relay reselection criteria Samsung Electronics discussion Rel-17

[R2-2009176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009176.zip) Relay (re)selection enhancement MediaTek Inc. discussion Rel-17

[R2-2009205](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009205.zip) Relay Selection and Reselection InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009229](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009229.zip) Remaining aspects for relay selection and reselection Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009523](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009523.zip) Summary Report of [Post111-e][622][Relay] Relay selection and reselection Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009588](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009588.zip) SL-RSRP and SD-RSRP comparioson and additional criterion for relay (re-)selection vivo discussion Rel-17

[R2-2009634](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009634.zip) Considerations on relay selection and reselection KT Corp. discussion

[R2-2009857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009857.zip) Relay reselection in the failure case Lenovo, Motorola Mobility discussion Rel-17

[R2-2009892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009892.zip) SL Relay selection Sony discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009972](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009972.zip) NR Sidelink Relay (Re-)Selection Criterion and Procedure Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2010005](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010005.zip) Relay reselection based on discovery Kyocera discussion

[R2-2010347](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010347.zip) Remaining issues on relay selection and reselection Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010652](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010652.zip) PC5 link failure handling for NR sidelink relay LG Electronics Inc. discussion Rel-17

#### 8.7.3.4 Other

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008778](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008778.zip) Left issues on QoS, Security and L23 comparison OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009650](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009650.zip) View on Paging Option 2 in L2 relay ITL discussion Rel-17

[R2-2009858](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009858.zip) Considerations on the UE-to-Network relay and UE-to-UE relay case Lenovo, Motorola Mobility discussion Rel-17

[R2-2010104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010104.zip) Release procedure for SL Relaying support Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

### 8.7.4 Discovery model and procedure for sidelink relaying

Including report of [Post111-e][623][Relay] Remaining issues on relay discovery

[R2-2008802](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008802.zip) Discussion on AS layer protocol of discovery message for SL relay OPPO discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008815.zip) Summary of [Post111-e][623][Relay]Remaining issues on relay discovery (rapporteur) OPPO discussion Rel-17 FS\_NR\_SL\_relay Revised

[R2-2008925](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008925.zip) Discussion on discovery message CATT discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008965](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008965.zip) Remaining issues on discovery and relay (re)selection Qualcomm Incorporated discussion Rel-17 FS\_NR\_SL\_relay

[R2-2008977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008977.zip) Further details on SL discovery for relaying Intel Corporation discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009032](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009032.zip) Discussion on relay discovery and link management ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009149](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009149.zip) Discussion on remaining issues on relay discovery Spreadtrum Communications discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009173](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009173.zip) Sidelink relay discovery open issue Samsung Electronics discussion Rel-17

[R2-2009204](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009204.zip) Discovery Procedure for SL Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009228](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009228.zip) Remaining aspects for discovery Ericsson discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009524](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009524.zip) Discussion on remaining issues on NR Sidelink Relay discovery Apple discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009587.zip) Remaining issues of sidelink relay discovery procedure vivo discussion Rel-17

[R2-2009633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009633.zip) Considerations on discovery for sidelink relay KT Corp. discussion

[R2-2009638](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009638.zip) Discussion on differentiation of discovery message SHARP Corporation discussion Rel-17

[R2-2009970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009970.zip) NR Sidelink Relaying Discovery Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2009994](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009994.zip) Discovery resources for sidelink relaying Kyocera discussion

[R2-2010046](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010046.zip) Discussion on relay discovery model and procedure Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010331.zip) On relay discovery MediaTek Inc. discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010348](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010348.zip) Remaining issues on relay discovery Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010349](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010349.zip) Discussion on the discovery aspects related to SA2 LS S2-2006587 Huawei, HiSilicon discussion Rel-17 FS\_NR\_SL\_relay

[R2-2010467](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010467.zip) Discussion on scenario regarding non SL relay capable gNB Xiaomi communications discussion

[R2-2010660](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010660.zip) Remaining issues on discovery for NR sidelink relay LG Electronics Inc. discussion Rel-17

[R2-2010661](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010661.zip) Summary of [Post111-e][623][Relay]Remaining issues on relay discovery (rapporteur) OPPO discussion Rel-17 FS\_NR\_SL\_relay [R2-2008815](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008815.zip) Late

## 8.8 RAN slicing SI

(FS\_NR\_slice; leading WG: RAN2; REL-17; WID: RP-193254)

Time budget: 0.5 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

### 8.8.1 Organizational

Including work plan, TR updates and any other rapporteur input.

Including outcome of [Post111-e][916][RAN slicing] RAN slicing study questions (CMCC)

[R2-2008732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008732.zip) LS on Enhancement of RAN Slicing (R3-205802; contact: Qualcomm) RAN3 LS in Rel-17 FS\_NR\_slice To:SA2 Cc:RAN2

[R2-2008759](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008759.zip) LS on Cell Configuration within TA/RA to Support Allowed NSSAI (S2-2006526; contact: ZTE) SA2 LS in Rel-17 FS\_eNS\_Ph2 To:RAN2, RAN3, CT1

[R2-2009669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009669.zip) Considerations on scenarios and solution space of RAN slicing enhancements Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_slice

[R2-2010183](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010183.zip) Discussion on restricting the rate per UE per network slice Huawei, HiSilicon discussion Rel-17 TEI17 Late

[R2-2010184](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010184.zip) Draft reply LS on restricting the rate per UE per network slice Huawei LS out Rel-17 FS\_eNS\_Ph2 To:SA2 Cc:RAN3 Late

[R2-2010364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010364.zip) Revised Work Plan for RAN Slicing CMCC, ZTE Work Plan Rel-17 FS\_NR\_slice R2-2007420

[R2-2010365](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010365.zip) Draft TR 38.832 CMCC, ZTE draft TR Rel-17 38.832 0.2.0 FS\_NR\_slice

[R2-2010366](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010366.zip) Report of [Post111-e][916][Slicing] Open issues for RAN slicing CMCC discussion Rel-17 FS\_NR\_slice

[R2-2010488](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010488.zip) Reply LS on Cell Configuration within TA/RA to Support Allowed NSSAI Qualcomm Incorporated LS out Rel-17 FS\_NR\_slice To:SA2, RAN3, CT1

[R2-2010646](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010646.zip) Draft reply LS on Cell Configuration within TA/RA to Support Allowed NSSAI ZTE corporation, Sanechips LS out Rel-17 FS\_NR\_slice To:SA2 Cc:CT1, RAN3

[R2-2010688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010688.zip) LS on Cell Configuration within TA/RA to Support Allowed NSSAI (C1-206760; contact: Nokia) CT1 LS in Rel-17 FS\_eNS\_Ph2 To:SA2 Cc:RAN2, RAN3

[R2-2010694](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010694.zip) LS on restricting the rate per UE per network slice (S2-2007946; contact: Nokia) SA2 LS in Rel-17 FS\_eNS\_Ph2 To:RAN2, RAN3

[R2-2010695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010695.zip) LS Reply on Enhancement of RAN Slicing (S2-2008240; contact: ZTE) SA2 LS in Rel-17 FS\_eNS\_Ph2 To:RAN3 Cc:RAN2

### 8.8.2 Slice based cell reselection under network control

Including discussion on proposals to address the issues for cell reselection identified in email discussion and whether or to which extent existing mechanisms can address them

[R2-2008857](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008857.zip) Considerations on slice aware cell priority KDDI Corporation discussion

[R2-2008917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008917.zip) Slice based Cell Reselection under Network Control CATT discussion Rel-17 FS\_NR\_slice

[R2-2008949](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008949.zip) Cell (re)selection based on preferred frequency(s) per slice Beijing Xiaomi Software Tech discussion

[R2-2008950](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008950.zip) Deployment scenarios of RAN slicing based on SA2 LSout Beijing Xiaomi Software Tech discussion

[R2-2008963](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008963.zip) Further discussion on RAN slicing enhancement Qualcomm Incorporated discussion FS\_NR\_slice

[R2-2009067](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009067.zip) Considerations for Slice-based cell (re)selection Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2009143](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009143.zip) Discussion on slice based cell reselection Spreadtrum Communications discussion Rel-17 FS\_NR\_slice

[R2-2009174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009174.zip) Slice information for cell reselection Samsung Electronics discussion Rel-17

[R2-2009198](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009198.zip) Consideration for slice based cell (re)selection Intel Corporation discussion Rel-17 FS\_NR\_slice

[R2-2009288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009288.zip) 5G RAN Slicing Framework During Cell Selection / Reselection Phases MITRE Corporation, DoD, NTIA discussion Rel-17 38.832

[R2-2009473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009473.zip) Discussion on slice based cell selection and re-selection Apple discussion Rel-17 FS\_NR\_slice

[R2-2009536](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009536.zip) Discussion on slice based cell reselection under network control China Unicom discussion FS\_NR\_slice

[R2-2009542](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009542.zip) Consideration on slice-based cell (re)selection OPPO discussion Rel-17 FS\_NR\_slice

[R2-2009644](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009644.zip) Assistant information to enable UE fast access network slice ITRI discussion FS\_NR\_slice

[R2-2009689](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009689.zip) Remaining issues on slice-based (re)-selection vivo discussion Rel-17 FS\_NR\_slice

[R2-2009807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009807.zip) Consideration on slice specific cell selection and reselection ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice

[R2-2009979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009979.zip) Evaluation of Access delay to slice Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2009986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009986.zip) Solutions for fast access to slice Ericsson discussion Rel-17 FS\_NR\_slice

[R2-2010063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010063.zip) Cell selection and reselection for RAN slicing Google discussion

[R2-2010065](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010065.zip) Discussion on Network Slicing’s Impact on Cell (Re-)Selection Convida Wireless discussion Rel-17 FS\_NR\_slice

[R2-2010181](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010181.zip) Slice based Cell (re)selection under network control Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2010222](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010222.zip) Further discussion on how to decide intended slice for idle mobility LG Electronics UK discussion Rel-17

[R2-2010367](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010367.zip) Discussion on SA2 LS and solutions for slice-based cell reselection CMCC discussion Rel-17 FS\_NR\_slice

### 8.8.3 Slice based RACH configuration or access barring

Including discussion on proposals to address the issues for RACH/access barring identified in email discussion and whether or to which extent existing mechanisms can address them

[R2-2009175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009175.zip) RACH configuration for RAN slicing Samsung Electronics discussion Rel-17

[R2-2009199](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009199.zip) Consideration of Slice based RACH Intel Corporation discussion Rel-17 FS\_NR\_slice

R2-2009423 RACH prioritisation for slices Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_slice

[R2-2009474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009474.zip) Discussion on slice based RACH and cell barring Apple discussion Rel-17 FS\_NR\_slice

[R2-2009543](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009543.zip) Consideration on slice-based RACH OPPO discussion Rel-17 FS\_NR\_slice

[R2-2009688](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009688.zip) Remaining issues on RACH and service continuity vivo discussion Rel-17 FS\_NR\_slice

[R2-2009806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009806.zip) Consideration on the slice specific RACH configuration ZTE corporation, Sanechips discussion Rel-17 FS\_NR\_slice

[R2-2009974](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009974.zip) RACH enhancements to enable UE fast access to the intended slice NEC Telecom MODUS Ltd. discussion

[R2-2010182](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010182.zip) Slice based RACH configuration or access barring Huawei, HiSilicon discussion Rel-17 FS\_NR\_slice

[R2-2010223](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010223.zip) Discussion on slice aware overload control LG Electronics UK discussion Rel-17

## 8.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: RP-200938)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

### 8.9.1 Organizational Scope and Requirements

E.g. Rapporteur input

[R2-2008716](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008716.zip) LS on evaluation methodology for connected mode UE power saving enhancements (R1-2007419; contact: vivo, MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh To:RAN2 Cc:RAN4

[R2-2008719](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008719.zip) LS on evaluation methodology for UE power saving enhancements (R1-2007425; contact: MediaTek) RAN1 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2 Cc:RAN4

### 8.9.2 Idle inactive-mode UE power saving

Including [Post111-e][907][ePowSav] UE grouping (Mediatek)

GENERAL

[R2-2009784](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009784.zip) Report of [Post111-e][907][ePowSav] UE grouping (Mediatek) MediaTek Inc. report

[R2-2008952](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008952.zip) Discussion on paging enhancement Xiaomi Communications discussion

[R2-2009785](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009785.zip) Paging Enhancements for UE Power Saving in NR MediaTek Inc. discussion

[R2-2010244](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010244.zip) Paging enhancements for idle/inactive-mode UE Huawei, HiSilicon, British Telecom discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009955](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009955.zip) Paging enhancement to reduce unnecessary UE paging receptions Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2010079](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010079.zip) Paging Enhancements for UE Power Savings Convida Wireless discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009878](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009878.zip) Consideration on Idle/inactive-mode UE power saving Lenovo, Motorola Mobility discussion Rel-17

Group determination

[R2-2009274](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009274.zip) Paging enhancement using UE subgrouping Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009092.zip) Paging Enhancements to Reduce False Alarms Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2010397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010397.zip) UE Power profile based UE subgrouping CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2010629](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010629.zip) Further consideration on the UE grouping methods ZTE corporation, Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

Paging / Group indication

[R2-2008892](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008892.zip) Power saving enhancements for paging reception Qualcomm Incorporated discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009083](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009083.zip) Paging enhancement in idle inactive mode for power saving vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009442](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009442.zip) Paging enhancement for power saving LG Electronics Inc. discussion

[R2-2009351](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009351.zip) General requirements for potential paging enhancement Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009503](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009503.zip) NR UE Power Save Wakeup and Paging Reception Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009893](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009893.zip) Discussion on reduction of unnecessary UE paging receptions Sony discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009642.zip) Discussion on the UE grouping method ITRI discussion NR\_UE\_pow\_sav\_enh-Core

[R2-2009464](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009464.zip) Discussion on UE group based paging OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

Other

[R2-2009502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009502.zip) NR UE Power Save False Paging Mitigation Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

TRS CSI-RS for Idle Inactive

[R2-2010245](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010245.zip) On potential TRS/CSI-RS for idle/inactive-mode UE Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009956](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009956.zip) Exposure of connected mode TRS occasions to Idle and Inactive mode Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2008946](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008946.zip) Discussion on TRS CSI-RS for RRC-IDLE and RRC-INACTIVE State UE Xiaomi Communications discussion

[R2-2009918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009918.zip) Potential TRS/CSI-RS occasion(s) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

[R2-2009465](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009465.zip) Potential RAN2 impacts for TRS/CSI-RS configuration OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

Exceeding tdoc limitation

[R2-2009504](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009504.zip) NR UE Power Save UE Paging Grouping Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

### 8.9.3 Other aspects RAN2 impacts

RLM BFD Relaxation (R4)

[R2-2009084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009084.zip) RAN2 impact on RLM/BFD relaxation for power saving vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: RP-201256)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 4-5 threads

### 8.10.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2008730](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008730.zip) Reply LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G (R3-205795;; contact: Qualcomm) RAN3 LS in Rel-17 NR\_NTN\_solutions-Core To:SA2, RAN2, CT1

[R2-2008884](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008884.zip) NR-NTN: Positioning Methods Fraunhofer IIS, Fraunhofer HHI discussion Rel-17 38.821 R2-2006699

[R2-2009136](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009136.zip) NR-NTN: TP for TS 38.300 Thales, Huawei, CATT, ZTE other Rel-17 38.300

R2-2009377 Discussion on CT1 LS on NAS procedure guard timers for GEO satellite OPPO discussion Rel-17 NR\_NTN\_solutions-Core Late

R2-2009378 Draft reply LS on NAS procedure guard timers for GEO satellite OPPO LS out Rel-17 NR\_NTN\_solutions-Core To:CT1 Cc:SA2 Late

[R2-2009695](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009695.zip) NR\_NTN\_solutions work plan THALES Work Plan Rel-17

[R2-2010686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010686.zip) LS on NAS procedure guard timers for GEO satellite (C1-205967; contact: OPPO) CT1 LS in Rel-17 5GSAT\_ARCH-CT To:RAN2 Cc:SA2

[R2-2010696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010696.zip) Reply LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G (S2-2008307; contact: Intel) SA2 LS in Rel-17 5GSAT\_ARCH To:RAN3 Cc:RAN2, SA3-LI, SA5

[R2-2010697](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010697.zip) LS on signalling of satellite backhaul connection (S2-2008308;contact: Samsung) SA2 LS in Rel-17 5GSAT\_ARCH To:RAN3 Cc:RAN1, RAN2

### 8.10.2 User Plane

#### 8.10.2.1 RACH aspects

Including the outcome of Post111-e][908][NTN] RACH and HARQ feedback aspects

[R2-2008911](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008911.zip) RACH Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2008936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008936.zip) Discussion on DRX operation associated with blind retransmission PANASONIC R&D Center Germany discussion

[R2-2008979](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008979.zip) MAC issues for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008980.zip) Timing advance for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008998](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008998.zip) Consideration on TA compensation for HAPS and ATG case Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2009063](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009063.zip) Enhancements for NTN on MAC Layer Nomor Research GmbH, Thales discussion Rel-17 R2-2006702

[R2-2009107](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009107.zip) Discussion on RACH in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009139](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009139.zip) Discussion on Random Access Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009451.zip) Random Access procedure with timing reference at gateway vs satellite Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009514](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009514.zip) On preamble ambiguity in NTN networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009595](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009595.zip) Discussion on HARQ and RACH aspects in NTN Asia Pacific Telecom co. Ltd discussion NR\_NTN\_solutions-Core

[R2-2009635](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009635.zip) Consideration on MAC enhancements for NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009636](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009636.zip) Consideration on varying RTD for earth fixed beam case Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009860](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009860.zip) Considerations on timing advance pre-compensation in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2009861](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009861.zip) Preamble ambiguity for UE without TA pre-compensation capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2009932](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009932.zip) Considerations on RACH procedure enhancements in NTN CAICT discussion

[R2-2009975](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009975.zip) Support of UEs with/without UE-specific pre-compensation NEC Telecom MODUS Ltd. discussion

[R2-2009981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009981.zip) Discussion on 2-step RACH adaptation in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009984.zip) NTN timers and common delay update in moving satellite scenario Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010091.zip) Timing Advance management in NTN ETRI discussion Rel-17 NR\_NTN\_solutions

[R2-2010169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010169.zip) On Random Access in NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010319](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010319.zip) Considerations on Random Access in NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2010339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010339.zip) Enhancement on random access procedure LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2010393](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010393.zip) Discussion on pre-compensation in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010451](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010451.zip) Delay calculation and compensation in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010455.zip) Summary of [Post111-e][908][NTN] RACH and HARQ feedback aspects InterDigital discussion Rel-17 NR\_NTN\_solutions-Core Late

[R2-2010456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010456.zip) [DRAFT] LS to RAN1 on RAN2 agreements for ra-ResponseWindow and msgB-ResponseWindow InterDigital LS out Rel-17 NR\_NTN\_solutions-Core To:RAN1 Late

[R2-2010457](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010457.zip) [DRAFT] LS to RAN1 on RAN2 agreements for enabling/disabling HARQ UL retransmission InterDigital LS out Rel-17 NR\_NTN\_solutions-Core To:RAN1 Late

[R2-2010664](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010664.zip) Considerations on scheduling request in NTN CAICT discussion

#### 8.10.2.2 Other MAC aspects

[R2-2008836](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008836.zip) Discussion on Other MAC aspects enhancements in NR NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008912](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008912.zip) MAC Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2008969](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008969.zip) Round trip delay offset for configured grant timers MediaTek Inc. discussion

[R2-2008970](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008970.zip) LCP impact of disabling HARQ uplink retransmission MediaTek Inc. discussion

[R2-2008997](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008997.zip) Consideration on HARQ blind retransmission Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2009064](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009064.zip) Enhancements on UL scheduling for NTN Nomor Research GmbH, Thales discussion Rel-17

[R2-2009108](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009108.zip) HARQ impact on MAC procedures in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009109](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009109.zip) Discussion on other MAC issues in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009140](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009140.zip) Discussion on HARQ and related timers Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009452.zip) UL HARQ process without HARQ retransmission Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009511](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009511.zip) On user plane latency reduction mechanisms in NTN networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009864](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009864.zip) Discussion on DRX for NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2009895](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009895.zip) Other MAC aspects in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009987](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009987.zip) Discussion on HARQ and UL scheduling enhancement aspects in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010168](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010168.zip) On scheduling, HARQ, and DRX for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010320](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010320.zip) Considerations on HARQ in NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2010334](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010334.zip) Discussion on disabling HARQ feedback and uplink retransmission LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2010335](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010335.zip) Discussion on scheduling enhancement LG Electronics Inc. discussion NR\_NTN\_solutions-Core

[R2-2010368](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010368.zip) Further discussion of HARQ operation for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010369](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010369.zip) HARQ enhancement for NTN system CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010533](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010533.zip) HARQ aspects in NTN ETRI discussion

#### 8.10.2.3 RLC and PDCP aspects

Including the outcome of Post111-e][909][NTN] RLC and PDCP aspects

[R2-2008896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008896.zip) [POST111e][909][NTN] Email Discussions Summary on RLC and PDCP aspects (MediaTek) MediaTek Inc. discussion

[R2-2008913](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008913.zip) RLC and PDCP Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2009070](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009070.zip) Remaining Aspects on Enhancements for NTN on RLC and PDCP Timers Nomor Research GmbH, Thales discussion Rel-17

[R2-2009647](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009647.zip) Consideration of RLC and PDCP in NTN China Telecom discussion

[R2-2010167](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010167.zip) On RLC and PDCP for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010170.zip) Additional RLC and PDCP aspects for NTN Sequans Communications discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.3 Control Plane

Also identify things not covered in the TR that need to be covered, if any.

#### 8.10.3.1 Earth fixed moving beams related issues

Including the outcome of Post111-e][910[NTN] Impacts of earth fixed and moving beams

[R2-2008838](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008838.zip) Discussion on tracking area for earth moving cells CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008914](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008914.zip) Beam Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2009110](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009110.zip) Discussion on earth fixed and moving cells OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009141](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009141.zip) Discussion on Floor Layout Information Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009256](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009256.zip) Earth fixed/moving beams related issues THALES discussion Rel-17

[R2-2009453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009453.zip) Gateway switch procedure for earth fixed and moving beam scenario Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009512](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009512.zip) Analysis of mobility management solutions with earth fixed and earth moving beams/cells in NTN networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009773.zip) On Feeder Link Mobility in Transparent Satellite Payload Scenarios Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009805](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009805.zip) Tracking area management for earth moving cells ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009820](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009820.zip) [POST111e][910][NTN] Impacts of earth fixed and moving beams (Ericsson) Ericsson report

[R2-2009823](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009823.zip) Aspects for Earth fixed and Earth moving beams for NTN Ericsson discussion NR\_NTN\_solutions-Core

[R2-2009977](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009977.zip) Mobility scenarios of Earth fixed/moving beams NEC Telecom MODUS Ltd. discussion

[R2-2009980](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009980.zip) TAI update for earth moving cell NEC Telecom MODUS Ltd. discussion

[R2-2010261](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010261.zip) Discussion on soft feeder link switch Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010377](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010377.zip) Considerations on Soft TAI Update CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010447](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010447.zip) Discussion on service link/feeder link switch in NTN Xiaomi Communications discussion

[R2-2010452](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010452.zip) Feeder-link switch InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

R2-2010480 Tracking area management for earth moving cells ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core Withdrawn

#### 8.10.3.2 Idle Inactive mode

Idle/inactive mode specific issues.

Including cell selection/reselection & system information.

[R2-2008814](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008814.zip) Consideration on idle mode issues in NTN CAICT discussion

[R2-2008837](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008837.zip) Remaining Issues of IDLE and Inactive Mode for NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008897.zip) On Cell Re-selection in NR-NTN MediaTek Inc. discussion

[R2-2008898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008898.zip) Improving Tracking Area Updates in NR-NTN MediaTek Inc. discussion

[R2-2008915](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008915.zip) Idle and Inactive Mode Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2008984](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008984.zip) Idle mode operation in NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009111](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009111.zip) Discussion on idle/inactive mode procedures in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009120](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009120.zip) Fixed Tracking Area and the Tracking Area Code in NTN PANASONIC R&D Center Germany discussion R2-2006821

[R2-2009142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009142.zip) Discussion on Mobility Spreadtrum Communications discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009255](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009255.zip) Idle mode procedures in NR NTN THALES discussion Rel-17

[R2-2009454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009454.zip) Cell selection and reselection enhancements Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009510](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009510.zip) Cell Selection and Reselection solutions for NTN networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009597](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009597.zip) Control Plane for Idle mode UE Xiaomi discussion Rel-17

[R2-2009621](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009621.zip) Enhancements on cell reselection Xiaomi discussion Rel-17

[R2-2009637](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009637.zip) Discussion on RRC\_IDLE mode issues in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009645](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009645.zip) Ephemeris data to be included in system information ITRI discussion NR\_NTN\_solutions-Core

[R2-2009648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009648.zip) The consideration of satellite ephemeris in NTN China Telecom discussion

[R2-2009774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009774.zip) IDLE mode aspects for Non-Terrestrial Networks (NTN) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009818](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009818.zip) Idle mode aspects for NTN Ericsson LM discussion NR\_NTN\_solutions-Core

[R2-2009862](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009862.zip) Ephemeris data provision in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2009894](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009894.zip) Idle mode aspects in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010094](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010094.zip) Earth moving beam scenarios in Earth fixed tracking areas ETRI discussion Rel-17 NR\_NTN\_solutions

[R2-2010260](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010260.zip) Considerations on satellite ephemeris Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010370](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010370.zip) Discussion of UE location information assistant for cell selection and reselection in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010453](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010453.zip) Satellite ephemeris in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010578.zip) Idle mode issues in NR NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.3.3 Connected mode

Connected mode specific issues.

Including the outcome of Post111-e][911[NTN] Connected mode aspects

[R2-2008833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008833.zip) Feeder Link Switch CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008834.zip) Open Issues for Measurements in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008835.zip) Discussion on UE-based location requirement in NR NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008916.zip) Connected Mode Aspects for an NTN- Observations and Proposals Samsung Research America discussion

[R2-2008973](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008973.zip) Service continuity between NTN and TN HUGHES Network Systems Ltd, Thales, BT, Turkcell, Vodafone discussion Rel-17 38.821

[R2-2008981](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008981.zip) Feeder link switch over for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2008982](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008982.zip) Mobility enhancement for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009112](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009112.zip) Discussion on mobility management for connected mode UE in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009121.zip) Overhead Reduction for the Handover Procedure in NTN PANASONIC R&D Center Germany discussion R2-2006822

[R2-2009443](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009443.zip) Measurement window enhancements LG Electronics Inc. discussion

[R2-2009455](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009455.zip) Configuration and triggering of CHO Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009456](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009456.zip) SMTC and measurement gap configuration Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009513](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009513.zip) Analysis of proposed conditional handover solutions for NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009772.zip) Simulation assumptions for evaluating NTN mobility Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core R2-2007363

[R2-2009803](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009803.zip) Report of [Post111-e] [911] [NTN] Connected mode aspects (ZTE) ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009804](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009804.zip) Consideration on the measurement configuration and reporting in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2009821](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009821.zip) Connected mode aspects for NTN Ericsson discussion

[R2-2009859](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009859.zip) Conditional handover in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2009863](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009863.zip) Considerations on measurements in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2009896](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009896.zip) Mobility management in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010262](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010262.zip) Discussion on enhancements for connected mode in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010371](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010371.zip) Discussion of mobility enhancements for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2010446](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010446.zip) Discussion on mobility management in NTN Xiaomi Communications discussion

[R2-2010454](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010454.zip) Connected mode mobility in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core R2-2007618

R2-2010478 Report of [Post111-e] [911] [NTN] Connected mode aspects (ZTE) ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core Withdrawn

R2-2010479 Consideration on the measurement configuration and reporting in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core Withdrawn

[R2-2010579](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010579.zip) New triggering condition for CHO in NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

## 8.11 NR positioning enhancements SI

(FS\_NR\_pos\_enh; leading WG: RAN1; REL-17; WID: RP-202094)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 3 threads

### 8.11.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

[R2-2008707](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008707.zip) LS on Latency of NR Positioning Protocols (R1-2007264; contact: Intel) RAN1 LS in Rel-17 FS\_NR\_pos\_enh To:RAN2 Cc:RAN3, SA2

[R2-2010576](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010576.zip) draft LS to capture TP for TR 38.857 Ericsson LS out Rel-17 To:RAN1

[R2-2010577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010577.zip) TP for TR 38.857 Study on NR Positioning Ericsson, Swift Navigation report Rel-17 38.857

### 8.11.2 Enhancements for commercial use cases

Scope and general discussion related to the RAN2 objective on enhancements to support high accuracy, low latency, network efficiency, and device efficiency for commercial use cases.

Including report of [Post111-e][625][POS] End-to-end latency analysis

This agenda item will use a summary document.

[R2-2008775](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008775.zip) Discussion on on-demand DL-PRS OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008776](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008776.zip) Positioning in RRC\_IDLE and RRC\_INACTIVE state OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008810.zip) Further discussion on ehancements for commercial use cases CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008885](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008885.zip) Discussion on Positioning in Idle/Inactive mode InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008886](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008886.zip) Discussion on End-to-End Latency Reduction for DL/UL Positioning InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008887](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008887.zip) Discussion on On Demand Reference Signals for Positioning InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009001](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009001.zip) Report of [Post111-e][625][POS] End-to-end latency analysis (Intel) Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009002](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009002.zip) Support of positioning in idle/inactive mode Intel Corporation discussion Rel-17

[R2-2009023](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009023.zip) Solution directions to reduce end-to-end latency Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009039](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009039.zip) Discussion on positioning enhancement vivo Mobile Communication Co., discussion FS\_NR\_pos\_enh

[R2-2009040](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009040.zip) Procedure of on-demand PRS vivo Mobile Communication Co., discussion FS\_NR\_pos\_enh

[R2-2009041](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009041.zip) Positioning in RRC idle and inactive state vivo Mobile Communication Co., discussion FS\_NR\_pos\_enh

[R2-2009137](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009137.zip) Discussion on positioning enhancements for commercial use cases Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009286.zip) Reporting movement models Fraunhofer IIS discussion R2-2007238 Revised

[R2-2009287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009287.zip) Reporting the situational quality of RAT and RAT-independent technologies Fraunhofer IIS, Fraunhofer HHI discussion R2-2007246

[R2-2009574](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009574.zip) Discussion on PRS enhancements Beijing Xiaomi Electronics discussion Rel-17

[R2-2009577](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009577.zip) Positioning enhancements on RRC idle/inactive UE and latency reduction Beijing Xiaomi Electronics discussion Rel-17

[R2-2009897](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009897.zip) Considerations on potential positioning enhancements Sony discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010072.zip) Enhancements for commercial use cases Ericsson discussion Rel-17

[R2-2010095](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010095.zip) NR Positioning Enhancements Qualcomm Incorporated discussion

[R2-2010096](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010096.zip) NR Positioning Latency Analysis and Enhancements Qualcomm Incorporated discussion

[R2-2010097](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010097.zip) On-Demand PRS Qualcomm Incorporated discussion

[R2-2010131](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010131.zip) Reporting movement models Fraunhofer IIS, Fraunhofer HHI discussion [R2-2009286](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009286.zip)

[R2-2010161](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010161.zip) On-demand PRS transmission and dynamic PRS resource allocation Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh R2-2007128

[R2-2010276](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010276.zip) Discussion on IDLE INACTIVE pos, on-demand PRS and latency analysis Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010277](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010277.zip) Discussion on R17 positioning enhancement Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010472](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010472.zip) Disucssion on IDLE/INACTIVE mode positioning ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010473](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010473.zip) Discussion on on-demand PRS ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010627](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010627.zip) Discussion on enhancement for commercial use cases Samsung R&D Institute UK discussion

[R2-2010648](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010648.zip) Support for positioning in idle/inactive mode Samsung R&D Institute UK discussion

[R2-2010669](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010669.zip) Summary of 8.11.2 Enhancements for commercial use cases CATT discussion Rel-17 FS\_NR\_pos\_enh Late

### 8.11.3 Integrity and reliability of assistance data and position information

#### 8.11.3.1 KPIs and use cases

Including report of [Post111-e][626][POS] Integrity use cases and specification impacts

[R2-2008811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008811.zip) Discussion on integrity service level CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009129](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009129.zip) Summary of [Post111-e][626][POS] Email Discussion on integrity use cases and specification impacts Swift Navigation discussion

[R2-2009760](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009760.zip) Positioning integrity for Industrial IoT use cases Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009898](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009898.zip) Discussion on Integrity of positioning information Sony discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010074](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010074.zip) Industrial IoT use-case Ericsson discussion Rel-17

[R2-2010090](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010090.zip) Integrity and reliability for IIoT positioning use cases Convida Wireless discussion Rel-17 38.857 FS\_NR\_pos\_enh

[R2-2010098](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010098.zip) Discussion on including PL Availability as an additional integrity KPI ESA discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010475](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010475.zip) Discussion on integrity&error source factor transmission ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.3.2 Error sources threat models occurrence rates and failure modes

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008812](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008812.zip) Discussion on error sources, threat models, occurrence rates and failure modes CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009282.zip) Error sources, threat models, occurrence rates and failure modes Fraunhofer IIS discussion Revised

[R2-2009331](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009331.zip) Discussion on GNSS Integrity Errors Swift Navigation, Ericsson, Intel Corporation, u-blox discussion

[R2-2010061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010061.zip) Text Proposal on GNSS position integrity error sources ESA discussion Rel-17 38.857 FS\_NR\_pos\_enh

[R2-2010073](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010073.zip) GNSS position integrity error sources Ericsson discussion Rel-17

[R2-2010135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010135.zip) Error sources, threat models, occurrence rates and failure modes Fraunhofer IIS, Fraunhofer HHI discussion [R2-2009282](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009282.zip)

[R2-2010278](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010278.zip) Discussion on threat models and failure modes Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010642](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010642.zip) Introduction of Integrity monitoring for GNSS and its error Samsung R&D Institute UK discussion

[R2-2010700](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010700.zip) Summary of 8.11.3.2 Error sources threat models occurrence rates and failure modes Intel Corporation discussion Rel-17 FS\_NR\_pos\_enh

#### 8.11.3.3 Methodologies for network-assisted and UE-assisted integrity

This agenda item may use a summary document (decision to be made based on submitted tdocs).

[R2-2008774](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008774.zip) Discussion on methodology for integrity OPPO discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008813](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008813.zip) Discussion on methodologies for network-assisted and UE-assisted integrity CATT discussion Rel-17 FS\_NR\_pos\_enh

[R2-2008888](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008888.zip) Discussion on methodologies for network-assisted and UE-assisted integrity InterDigital, Inc. discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009003](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009003.zip) Methodologies for network-assisted and UE-assisted integrity Intel Corporation, Swift Navigation discussion Rel-17

[R2-2009043](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009043.zip) Integrity signaling and procedures vivo Mobile Communication Co., discussion

[R2-2009138](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009138.zip) Discussion on integrity methodologies for network-assisted and UE-assisted integrity Spreadtrum Communications discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009333.zip) TP for GNSS Integrity Methodologies Swift Navigation, Ericsson, Intel Corporation, u-blox discussion

[R2-2009530](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009530.zip) Discussion on Positioning Integrity Apple discussion Rel-17 FS\_NR\_pos\_enh

[R2-2009578](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009578.zip) Discussion on methodologies for positioning integrity Beijing Xiaomi Electronics discussion Rel-17

[R2-2009761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009761.zip) Signalling for Positioning Integrity Support Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010075](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010075.zip) Methodologies for network-assisted and UE-assisted integrity Ericsson discussion Rel-17

[R2-2010279](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010279.zip) Discussion for network-assisted and UE-assisted integrity Huawei, HiSilicon discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010474](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010474.zip) Discussion of the methodologies for network-assisted and UE-assisted integrity ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_pos\_enh

[R2-2010675](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010675.zip) Summary of 8.11.3.3: Methodologies for network-assisted and UE-assisted integrity InterDigital discussion Rel-17 FS\_NR\_pos\_enh

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: RP-201386)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.12.1 Organizational

Rapporteur inputs and other organizational documents. Documents in this AI do not count towards the tdoc limitation.

Including outcome of [Post111-e][912][REDCAP] TP for the TR

[R2-2009615](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009615.zip) Way forward for RedCap in RAN2 Ericsson discussion FS\_NR\_redcap

[R2-2009616](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009616.zip) TR38875 update Ericsson discussion FS\_NR\_redcap

[R2-2009617](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009617.zip) Summary of [Post111-e][912][RedCap] TP for TR Ericsson report FS\_NR\_redcap

### 8.12.2 Framework for reduced capabilities

[R2-2008951](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008951.zip) General views on Higher-layer impacts for Redcap devices Xiaomi Communications discussion

#### 8.12.2.1 Principles for how to define and constrain reduced capabilities

Including outcome of [Post111-e][913][REDCAP] Definition and constraining of reduced capabilities

[R2-2008889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008889.zip) Define and constrain RedCap UEs Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2009004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009004.zip) Report of [POST111e][913][REDCAP] Definition and constraining of reduced capabilities (Intel) Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2009008](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009008.zip) Device type definition and how to signal the device type to network Fujitsu discussion Rel-17 FS\_NR\_redcap

[R2-2009085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009085.zip) UE type defination and constraining for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2009104](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009104.zip) Discussion on definition of reduced capabilities OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2009115](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009115.zip) On the definition of a RedCap device type MediaTek Inc. discussion Rel-17 FS\_NR\_redcap R2-2007492

[R2-2009248](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009248.zip) Consideration on definition and constraining of Reduced Capability ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2009361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009361.zip) On Definition and Constraint of Reduced Capabilities CATT discussion Rel-17 FS\_NR\_redcap

[R2-2009618](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009618.zip) Framework and principles for RedCap Ericsson discussion FS\_NR\_redcap

[R2-2009762](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009762.zip) Discussion on how to define and constrain the REDCAP UE China Telecommunications discussion

[R2-2009933](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009933.zip) Capability framework and constraining of RedCap UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

R2-2009957 Discussion on how to ensure devices only access to intended services China Telecommunications discussion Rel-17 Late

[R2-2009958](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009958.zip) Discussion on how to ensure devices only access to intended services China Telecommunications discussion Rel-17

[R2-2010225](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010225.zip) Discussion on the intended use cases for RedCap UEs LG Electronics UK discussion Rel-17

[R2-2010376](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010376.zip) Discussion on the definition and constraining of reduced capabilities CMCC discussion Rel-17 FS\_NR\_redcap

[R2-2010458](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010458.zip) Reduced capability device type definition InterDigital discussion Rel-17 FS\_NR\_redcap

#### 8.12.2.2 Identification and access restrictions

Including outcome of [Post111-e][914][REDCAP] UE identification and access restrictions

[R2-2008890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008890.zip) Impact of reduced capabilities on idle mode procedures Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2008947](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008947.zip) Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion

[R2-2008996](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008996.zip) Early identification of RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2009009](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009009.zip) Access restriction of RedCap UE Fujitsu discussion Rel-17 FS\_NR\_redcap

[R2-2009010](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009010.zip) UAC for RedCap UE Intel Corporation, Facebook discussion Rel-17 FS\_NR\_redcap

[R2-2009086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009086.zip) Identification and access restrictions for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2009105](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009105.zip) Discussion on RedCap UE’s access control OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2009249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009249.zip) Further consideration on Identification and access restrictions ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2009362](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009362.zip) On Identification and Access Restrictions for Reduced Capabilities UE CATT discussion Rel-17 FS\_NR\_redcap

[R2-2009515](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009515.zip) Ineffectiveness of MSG3 based RAN node identification of RedCap UE Apple discussion Rel-17 FS\_NR\_redcap

[R2-2009619](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009619.zip) Identification and access control of RedCap Ues Ericsson discussion FS\_NR\_redcap

[R2-2009670](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009670.zip) Early identification of Redcap UEs Lenovo, Motorola Mobility discussion Rel-17 FS\_NR\_redcap

[R2-2009751](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009751.zip) Discussion on identification and access restriction of REDCAP UE China Telecommunications discussion

[R2-2009800](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009800.zip) Cell access for REDCAP UE with reduced bandwidth Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2009817](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009817.zip) RedCap UE identification options NEC discussion Rel-17 FS\_NR\_redcap

[R2-2009871](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009871.zip) Cell restriction and UAC enhancement for REDCAP Ues Lenovo, Motorola Mobility discussion Rel-17

[R2-2009916](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009916.zip) Cell access restrictions for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2009934](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009934.zip) Identification and access restriction of RedCap UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2009936](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009936.zip) Summary of email discussion 914 on UE identification and access restrictions Huawei report Rel-17 FS\_NR\_redcap

[R2-2010224](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010224.zip) Consideration on access restriction during Msg3 LG Electronics UK discussion Rel-17

### 8.12.3 UE power saving and battery lifetime enhancement

UE power saving and battery lifetime enhancement for reduced capability UEs in applicable use cases (e.g. delay tolerant case).

Including outcome of [Post111-e][915][REDCAP] UE power saving features

[R2-2008891](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008891.zip) DRX enhancements for RedCap UEs Qualcomm Incorporated discussion Rel-17 FS\_NR\_redcap

[R2-2008948](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008948.zip) Discussion on e-DRX for Redcap Devices Beijing Xiaomi Mobile Software discussion

[R2-2009011](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009011.zip) Support of extend paging DRX cycle for Inactive UE Intel Corporation discussion Rel-17

[R2-2009022](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009022.zip) Relax measurement for stationary and low mobility devices Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2009087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009087.zip) RRM relaxation for power saving vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2009106](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009106.zip) Discussion on RRM relaxation OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2009116](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009116.zip) Further considerations for eDRX MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

[R2-2009247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009247.zip) Discussion on eDRX for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2009363](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009363.zip) On eDRX for NR RRC Inactive and Idle CATT discussion Rel-17 FS\_NR\_redcap

[R2-2009364](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009364.zip) Summary of email discussion 915 - UE power saving features CATT discussion Rel-17 FS\_NR\_redcap

[R2-2009532](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009532.zip) Support of 2.56 eDRX cycle and emergency broadcast reception for RedCap UEs Apple, Facebook discussion Rel-17 FS\_NR\_redcap

[R2-2009620](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009620.zip) RedCap power saving enhancements Ericsson discussion FS\_NR\_redcap

[R2-2009877](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009877.zip) RRM relaxation for stationary UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2009917](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009917.zip) Power saving and battery lifetime enhancement for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2009935](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009935.zip) eDRX and RRM measurement relaxation for RedCap UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2010113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010113.zip) eDRX for Reduced Capability NR Devices Convida Wireless discussion Rel-17

[R2-2010392](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010392.zip) eDRX for reduced capability UE CMCC discussion Rel-17 FS\_NR\_redcap

[R2-2010406](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010406.zip) Introducing Extended DRX for RRC Inactive and/or Idle Samsung discussion FS\_NR\_redcap

[R2-2010580](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010580.zip) RRM relaxation for stationary RedCap Ues LG Electronics Inc. discussion Rel-17 FS\_NR\_redcap

[R2-2010592](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010592.zip) RRM relaxation for RedCap devices Samsung Electronics discussion Rel-17

## 8.13 SON MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: RP-201281)

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

[R2-2010085](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010085.zip) Immediate MDT with MR-DC and Intermediate MDT for early measurements Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010086.zip) Logged MDT with MR-DC and related early measurments aspects Samsung Telecommunications discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.1 Organizational

[R2-2008723](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008723.zip) LS to RAN2 on RACH report for SgNB (R3-205662; contact: CATT) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:RAN2

[R2-2008725](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008725.zip) LS on Successful Handover Report (R3-205759; contact: Samsung) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN2

[R2-2008731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008731.zip) LS to RAN2 on RACH report for 2-step RACH (R3-205797; contact: CATT) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh To:RAN2

[R2-2008763](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008763.zip) Reply LS on limitation of Propagation of immediate MDT configuration in case of Xn inter-RAT HO (S5-204474; contact: Ericsson) SA5 LS in Rel-17 To:RAN3, RAN2, CT4

[R2-2008842](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008842.zip) [draft] Reply LS on UE RACH report for SgNBs CATT LS out Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3

[R2-2008843](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008843.zip) [draft] Reply LS on RACH report for 2-step RACH CATT LS out Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3

### 8.13.2 SON

#### 8.13.2.1 Handover related SON aspects

Including conditional handover and DAPS

[R2-2008844](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008844.zip) Discussion on CHO and DAPS Mobility Enhancement CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2008999](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008999.zip) CHO support for MDT/SON Intel Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh

[R2-2009017](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009017.zip) Consideration on handover related SON OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009396.zip) SON aspects of DAPS HO and Fast MCG Recovery Optimizations QUALCOMM Incorporated discussion Rel-17

[R2-2009424](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009424.zip) SON for MRO Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009632](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009632.zip) Discussion on RLF report in CHO and DAPS case SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh, NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009682](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009682.zip) Discussion on SON enhancements for Successful HO vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009683](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009683.zip) Discussion on SON enhancements for DAPS HO vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009853](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009853.zip) MRO Enhancement for Inter-RAT handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2009854](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009854.zip) SON Enhancements for CHO Lenovo, Motorola Mobility discussion Rel-17

[R2-2009855](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009855.zip) MRO Enhancement for DAPS Handover Lenovo, Motorola Mobility discussion Rel-17

[R2-2010146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010146.zip) CHO and DAPS-related SON aspects Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010174](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010174.zip) Discussion on handover related SON aspects Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010321](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010321.zip) Handover related SON aspects ZTE Corporation, Sanechips discussion Rel-17

[R2-2010361](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010361.zip) SON Enhancements related to HO Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010394](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010394.zip) SON Enhancement for CHO and DAPS CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010509](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010509.zip) Disucssion on rel-17 radio link failure report NTT DOCOMO, INC. discussion

#### 8.13.2.2 2-step RA related SON aspects

[R2-2008845](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008845.zip) Discussion on RACH Report for 2-step RACH CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009019](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009019.zip) Discussion on 2-step RACH reporting for SON OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009061](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009061.zip) Discussion on 2-step RA aspects of SON China Telecom Corporation Ltd. discussion

[R2-2009399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009399.zip) RA-report enhancements for 2-step RACH QUALCOMM Incorporated discussion Rel-17

[R2-2009425](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009425.zip) 2-step RACH reporting Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core R2-2007516

[R2-2009631](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009631.zip) Discussion on RA information for 2-step RA SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009684](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009684.zip) Discussion on SON enhancements for 2-step RACH vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010147](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010147.zip) 2-Step RA information reported by the UE for SON purposes Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010175](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010175.zip) Discussion on 2 step RA related SON aspects Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010322](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010322.zip) Enhance UE reporting for 2stepRA ZTE Corporation, Sanechips discussion Rel-17

[R2-2010362](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010362.zip) SON Enhancements related to 2-step RA Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010395.zip) SON Enhancement for 2-step RA CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.3 Other WID related SON features

Including RAN3 input features, successful handover report, MRO for SN change failure, RACH optimization enhancements, UL-DL coverage mismatch,…

[R2-2008918](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008918.zip) UE RACH Report for SN CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009018](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009018.zip) Consideration on successful handover report and UE history information in EN-DC OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009397](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009397.zip) Successful Handover Report QUALCOMM Incorporated discussion Rel-17

[R2-2009400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009400.zip) Enhancements to Mobility History Information QUALCOMM Incorporated discussion Rel-17

[R2-2009426](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009426.zip) Refined UL Coverage Outage Detection Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core R2-2007516

[R2-2009685](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009685.zip) Discussion on RACH report for SgNB vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009850.zip) MRO Enhancement for fast MCG link recovery Lenovo, Motorola Mobility discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010148](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010148.zip) Other WID related SON features Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010176](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010176.zip) Discussion on other SON aspects Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010323](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010323.zip) Considerations on RAN3 concerned issues ZTE Corporation, Sanechips discussion Rel-17

[R2-2010400](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010400.zip) Enhancements related to successful HO report & MCGFailureInformation Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010459](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010459.zip) Discussion on successful handover report NTT DOCOMO, INC. discussion

[R2-2010508](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010508.zip) Discussion on collection of UE history information in EN-DC NTT DOCOMO, INC. discussion Late

[R2-2010526](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010526.zip) Discussion on conditional PSCell addition/change failure report NTT DOCOMO, INC. discussion Late

[R2-2010608](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010608.zip) Discussion on rel-17 Radio Link Failure Report for CG failure aspects NTT DOCOMO INC. discussion Rel-17

### 8.13.3 MDT

[R2-2009263](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009263.zip) On the need for enhancements to the MDT framework Fraunhofer HHI, Fraunhofer IIS discussion Rel-17

R2-2010220 Summary on 8.13.3 MDT Huawei discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core Late

=> withdrawn

#### 8.13.3.1 Immediate MDT enhancements

including M5/M6/M7 in all bearer type scenarios, immediate MDT for MR-DC

[R2-2008846](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008846.zip) Immediate MDT Enhancements for M6 CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009020](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009020.zip) Enhancement of Immediate MDT in MR-DC OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009395](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009395.zip) On the configuration and accuracy of M5, M6, and M7 measurements in split-bearer QUALCOMM Incorporated discussion Rel-17

[R2-2009427](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009427.zip) Immediate MDT enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009687](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009687.zip) Discussion on immediate MDT enhancements vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010034](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010034.zip) On Immediate MDT Enhancements Ericsson discussion

[R2-2010177](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010177.zip) Discussion on immediate MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010324](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010324.zip) Immediate MDT enhancements ZTE Corporation, Sanechips discussion Rel-17

R2-2010698 Summary on 8.13.3.1 Immediate MDT enhancements Huawei discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.3.2 Logged MDT enhancements

[R2-2008847](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008847.zip) Logged MDT in DC Scenario CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009016](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009016.zip) Consideration of logged MDT enhancements OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009391.zip) Logged measurement Enhancements QUALCOMM Incorporated discussion Rel-17

[R2-2009434](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009434.zip) Enhancements for Logged MDT and RLFreporting Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009686](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009686.zip) Discussion on logged MDT enhancements vivo discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010035](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010035.zip) On logged MDT related enhancements Ericsson discussion

[R2-2010178](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010178.zip) Discussion on logged MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010325](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010325.zip) Logged MDT enhancements ZTE Corporation, Sanechips discussion Rel-17

[R2-2010396](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010396.zip) MDT enhancement for on-demand SI CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010401](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010401.zip) MDT Enhancements Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010462](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010462.zip) Discussion on erroneous connection release Xiaomi communications discussion

[R2-2010699](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010699.zip) Summary on 8.13.3.2 Logged MDT enhancements Huawei discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.4 L2 Measurements

[R2-2009021](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009021.zip) L2 measurement for split bearers OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2009435](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009435.zip) Need for L2 measurements enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010045](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010045.zip) On additional layer-2 measurements Ericsson discussion

[R2-2010179](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010179.zip) Discussion on L2M Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

[R2-2010326](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010326.zip) Consideration on L2 measurement enhancement ZTE Corporation, Sanechips discussion Rel-17

## 8.14 NR QoE SI

(FS\_NR\_QoE; leading WG: RAN3; REL-17; WID: RP-193256)

Time budget: 0 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 0 threads

Not Treated AT meeting. Can open incoming LSes if any.

* [AT112-e][038][NR QoE] (Ericsson)

Scope: Treat and take into account LS in in R2-2008728. Attempt to identify what the R3 decision may mean for R2. If possible put on the table relevant / promising options for R2, and capture relevant characteristics of the options. If found needed, make and approve a Reply LS to R3

Intended outcome: Report that can be a first step towards making decisions, possibly also an LS out.

Deadline: EOM

LS in

[R2-2008728](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008728.zip) LS on Transport of NR QoE Reports in the RAN (R3-205785; contact: Ericsson) RAN3 LS in Rel-17 FS\_NR\_QoE To:RAN2

[R2-2008724](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008724.zip) New service type of NR QoE (R3-205724; contact: ZTE) RAN3 LS in Rel-17 FS\_NR\_QoE To:SA4 Cc:RAN2 ,SA5, SA2

General

[R2-2009436](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009436.zip) QoE Measurement Collection in NR Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_QoE

[R2-2009594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009594.zip) Introduce the VR and MBMS service for NR QoE China Unicom discussion FS\_NR\_QoE

[R2-2010004](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010004.zip) Mobility Support for NR QoE Management Ericsson discussion FS\_NR\_QoE

[R2-2010180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010180.zip) Discussion on NR QoE Huawei, HiSilicon discussion Rel-17 FS\_NR\_QoE

[R2-2010476](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010476.zip) Discussion on QoE in NR ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_QoE

[R2-2010594](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010594.zip) NR QoE management Samsung Electronics discussion Rel-17

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: RP-201516)

Time budget: 1.5 TU

Tdoc Limitation: 3 tdocs (this is the initial meeting)

Email max expectation: 3-4 threads

### 8.15.1 Organizational

[R2-2010672](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010672.zip) LS on PC5 DRX operation (S2-2008326; contact: LGE) SA2 LS in Rel-17 FS\_eV2XARC\_Ph2 To:RAN2 Cc:RAN1

[R2-2008767](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008767.zip) Reply LS to extend the scope of eV2X (SP-191379; contact: Telecom Italia) SA LS in Rel-17 FS\_eV2XARC\_Ph2 To:5GAA WG4 Cc:SA2, SA1, RAN, RAN2

[R2-2008761](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008761.zip) LS on new PQI support for PC5 communication (S2-2006588; contact: Oppo) SA2 LS in Rel-17 FS\_5G\_ProSe To:RAN1 Cc:RAN2

[R2-2008944](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008944.zip) RAN2 Work Plan for Release-17 NR Sidelink enhancements LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

[R2-2009025](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009025.zip) draft LS to RAN1 on SL DRX ZTE Corporation, Sanechips LS out Rel-17 NR\_SL\_enh-Core To:RAN1

### 8.15.2 SL DRX for broadcast groupcast and unicast

[R2-2008772](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008772.zip) Discussion on DRX for sidelink OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2008850](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008850.zip) Discussion on Sidelink DRX CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2008943](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008943.zip) Discussion on Sidelink DRX LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

[R2-2008971](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008971.zip) Methods for configuring SL DRX and Paging Sierra Wireless, S.A. discussion Rel-17

[R2-2008978](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008978.zip) On general sidelink DRX design Intel Corporation discussion Rel-17

[R2-2008988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008988.zip) Alignment of DRX wake up times Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2009026](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009026.zip) Discussion on Sidelink DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2009133](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009133.zip) Sidelink DRX for Power Saving Fujitsu discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009210](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009210.zip) Initial Discussion on SL DRX InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2009211](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009211.zip) Discussion on Uu DRX for SL UE InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2009231](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009231.zip) DRX for sidelink communications Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2009232](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009232.zip) Interaction between partial sensing and DRX Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2009289](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009289.zip) Considerations for SL DRX Samsung Research America discussion

[R2-2009413](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009413.zip) Consideration on the sidelink DRX for unicast, groupcast and broadcast Huawei, HiSilicon discussion

[R2-2009527](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009527.zip) Discussion on Sidelink DRX Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2009696](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009696.zip) Discontinuous reception and transmission in SL Lenovo, Motorola Mobility discussion NR\_SL\_enh-Core

[R2-2009833](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009833.zip) SL DRX for broadcast groupcast and unicast vivo discussion

[R2-2009899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009899.zip) Discussion on Introduction of Sidelink DRX Sony discussion Rel-17 NR\_SL\_enh-Core

[R2-2009923](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009923.zip) Discussion on Sidelink DRX Qualcomm Finland RFFE Oy discussion Rel-17

[R2-2009993](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009993.zip) NR SL DRX Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

[R2-2010058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010058.zip) On configuration and operation of SL DRX Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

[R2-2010140](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010140.zip) Sidelink DRX Considerations Convida Wireless discussion Rel-17

[R2-2010142](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010142.zip) Sidelink and Uu DRX Convida Wireless discussion Rel-17

[R2-2010332](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010332.zip) On SL DRX MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2010433](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010433.zip) Discussion on Sidelink DRX ASUSTeK discussion NR\_SL\_enh-Core

[R2-2010468](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010468.zip) Discussion on sidelink DRX timer handling Xiaomi communications discussion

### 8.15.3 Resource allocation enhancements RAN2 scope

[R2-2008773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008773.zip) Discussion on Inter-UE Coordination for sidelink OPPO discussion Rel-17 NR\_SL\_enh-Core

[R2-2008851](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008851.zip) Consideration on Resource Allocation Enhancements CATT discussion Rel-17 NR\_SL\_enh-Core

[R2-2008986](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008986.zip) Resource Allocation Enhancements for NR Sidelink Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

[R2-2009027](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009027.zip) resource allocation to reduce power consumption ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2009028](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009028.zip) Discussion on sidelink inter-UE coordination ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

[R2-2009134](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009134.zip) Dual-mode Configuration and Selection Mechanism for NR Sidelink Fujitsu discussion Rel-17 FS\_NR\_SL\_relay

[R2-2009212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009212.zip) RAN2 Aspects of Resource Allocation with Inter-UE Coordination InterDigital discussion Rel-17 NR\_SL\_enh-Core

[R2-2009290](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009290.zip) Enhanced resource allocation Samsung Research America discussion

[R2-2009411](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009411.zip) Consideration on resource allocation enhancement in Rel-17 NR SL enhancement Huawei, HiSilicon discussion

[R2-2009528](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009528.zip) Discussion on Resource Allocation for Pedestrian UE Apple discussion Rel-17 NR\_SL\_enh-Core

[R2-2009722](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009722.zip) Need of resource allocation enhancements for sidelink mode 2 Ericsson discussion Rel-17 NR\_SL\_enh-Core

[R2-2009834](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009834.zip) Uu and SL DRX impact to resource allocation mode 1 and mode 2 vivo discussion

[R2-2009869](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009869.zip) Discussion on sidelink resource allocation enhancements in mode2 Lenovo, Motorola Mobility discussion Rel-17

[R2-2009924](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009924.zip) Discussion on Reliability and Latency Qualcomm Finland RFFE Oy discussion Rel-17

[R2-2009992](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009992.zip) Resource Allocation Enhancements Fraunhofer HHI, Fraunhofer IIS discussion

[R2-2010047](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010047.zip) Discussion on RAN2 scope for resource allocation enhancement Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

[R2-2010144](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010144.zip) On Resource Allocation Mode 2 Enhancement for NR Sidelink Convida Wireless discussion Rel-17

[R2-2010333](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010333.zip) On SL Resource allocation enhancements MediaTek Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2010583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010583.zip) Inter-UE coordination for NR V2X LG Electronics Inc. discussion Rel-17 NR\_SL\_enh-Core

[R2-2010587](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010587.zip) Power efficient resource allocation LG Electronics Inc. discussion Rel-17 NR\_SL\_enh-Core

### 8.15.4 Other

[R2-2008830](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008830.zip) Discussion on geo-area confinement for non-ITS sidelink band OPPO discussion Rel-17 NR\_SL\_enh

[R2-2008852](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008852.zip) Sidelink Operation Using Non-ITS Band in a Pre-defined Geographic Area CATT discussion Rel-17 NR\_SL\_enh

[R2-2009135](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009135.zip) Geographic Location based Frequency Resource Operation for NR Sidelink Fujitsu discussion Rel-17 NR\_SL\_enh

[R2-2009294](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009294.zip) SL operation confined to a predetermined geo-area discussion Samsung Research America Rel-17 NR\_SL\_enh

[R2-2009412](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009412.zip) Discussion on WI objective 5: confining sidelink operation to a predetermined geographic area(s) for a given frequency range Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh

[R2-2009529](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009529.zip) Discussion on Geographical area restriction for NR SL Apple discussion Rel-17 NR\_SL\_enh

[R2-2009835](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009835.zip) Mechanism to support confined sidelink operation vivo discussion Rel-17 NR\_SL\_enh

[R2-2009866](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009866.zip) Views on Predetermined geographic area(s) for sidelink Lenovo, Motorola Mobility discussion Rel-17 NR\_SL\_enh

[R2-2009937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009937.zip) UE Tx Profile Qualcomm Finland RFFE Oy discussion Rel-17 NR\_SL\_enh

[R2-2010059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010059.zip) Discussion on Simultaneous mode 1 and mode 2 operation and LCP enhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh

[R2-2010633](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010633.zip) Geographic-Area restriction on SL operation MediaTek Inc. discussion Rel-17 NR\_SL\_enh

## 8.16 NR R17 Other

Time budget: TU

Tdoc Limitation: tdocs

Email max expectation: threads

This item carries the otherwise unbudgeted time to treat LSes for not yet started items.

* [AT112-e][032][NR17] eNPN LS (Futurewei)

Scope: Treat R2-2010691. Determine status / collect comments among RAN2 companies regarding the asked questions. Attempt agreements in RAN2 on aspects for which agreement seems feasible (if any). Create a reply LS. Depending on progress, some aspects may be brought online week2

Intended outcome: Report and Approved LS out

Deadline: Final: End of meeting. Intermediate deadlines by rapporteur.

[R2-2010691](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010691.zip) LS on questions to RAN WGs on dual Radio UE (2Rx/2Tx or 2Rx/1Tx) support for simultaneous communication with both SNPN and PLMN (S2-2007827; contact: Futurewei) SA2 LS in Rel-17 FS\_eNPN To:RAN2

* [AT112-e][033][NR17] Introduction of 35 and 45 MHz channel Bandwidths (T-Mobile US)

Scope: Treat R2-2010133.

Intended outcome: Approved LS out

Deadline: Final: Wed Nov 11

[R2-2010133](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010133.zip) Introduction of 35 and 45 MHz channel Bandwidths T-Mobile USA Inc. LS out Rel-17 NR\_FR1\_35MHz\_45MHz\_BW To:RAN4

Not Treated (for now)

[R2-2010128](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010128.zip) Periodic SRS in SCell dormant BWP Qualcomm Incorporated discussion Rel-17

# 9 Rel-17 EUTRA Work Items

## 9.1 NB-IoT and eMTC enhancements

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: RP-201306)

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Focus on two objectives only.

### 9.1.1 Organizational

### 9.1.2 NB-IoT neighbor cell measurements and corresponding measurement triggering before RLF

Including outcome of [Post111-e][923][NBIOT R17] RLF Enhancements (Qualcomm)

[R2-2008937](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008937.zip) Impact on Static devices THALES discussion

[R2-2009058](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009058.zip) Further consideration on measurement in connected mode ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009146](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009146.zip) Discussion on the corresponding measurement before RLF Spreadtrum Communications discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009268](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009268.zip) Enhancements for Re-establishment time reduction Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2009731](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009731.zip) Neighbour cell measurements in RRC\_CONNECTED Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009788](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009788.zip) Report for [Post111-e][923][NBIOT R17] RLF Enhancements (Qualcomm) Qualcomm Incorporated discussion Rel-15 NB\_IOTenh2-Core

[R2-2009789](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009789.zip) Way forward for connected mode neighbour cell measurement in NB-IoT Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009876](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009876.zip) Neighbor cell measurements triggering before RLF Lenovo, Motorola Mobility discussion Rel-17

[R2-2010076](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010076.zip) Reducing time taken for reestablishment procedures in NB-IoT Ericsson discussion Rel-17

[R2-2010249](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010249.zip) Discussion on Total Interruption Time ETRI discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2010460](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010460.zip) Measurement before radio link failure MediaTek Inc. discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

### 9.1.3 NB-IoT carrier selection based on the coverage level, and associated carrier specific configuration

[R2-2009059](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009059.zip) Further consideration on multi carriers configuration and selection ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009147](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009147.zip) Discussion on enhanced paging carrier selection and multi carrier configuration Spreadtrum Communications discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009180](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009180.zip) NB-IoT carrier selection and configuration based on coverage level Ericsson discussion Rel-17

[R2-2009269](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009269.zip) Analysis on carrier selection options for NB-IoT Nokia, Nokia Shanghai Bell discussion Rel-17

[R2-2009732](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009732.zip) Paging carrier selection based on CEL and on DRX Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

[R2-2009790](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009790.zip) Support for NB-IoT carrier selection based on the coverage level Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2010077 NB-IoT carrier selection and configuration based on coverage level Ericsson discussion Rel-17 Withdrawn

[R2-2010470](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010470.zip) Carrier selection enhancement MediaTek Inc. discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

## 9.2 SI on NB-IoT and eMTC support for NTN

(FS\_LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; SID: RP-193235)

Time budget: 0 TU (Per RP agreement, this item will start by email, there will be no on-line discussion)

Tdoc Limitation: 2 tdocs

Email max expectation: 2 threads

Initial focus will be to clarify scope more detailed than in the SID, i.e. Start identifying the extent parts of “NR over NTN” TR can be re-used or not re-used for NB-IoT/eMTC support for NTN. Scenarios in the WID and as defined by RAN1 possibly complemented by RAN2 can be assumed.

### 9.2.1 Scenarios

Confirm Scenario Assumptions, e.g. from WID, from TR38.821 for the purpose of RAN2 continued work. R2 assumptions shall not replace/preempt R1 scenario work. It is assumed that this topic can be kept small/simple. In case decision cannot be taken, an assumption to allow contiued work should be taken, where the assumption can be verified later (e.g. in R2 or R1).

* [AT112-e][034][IoT-NTN] Scenarios (Eutelsat)

A) In general, as stated above: Confirm Scenario Assumptions, e.g. from WID, from TR38.821 for the purpose of RAN2 continued work. Intention is not to replace or preempt R1 scenario work.

B) Specifically, cover relevant proposals in tdocs submitted to this AI.

Intended outcome: Report with agreements and/or acceptable assumptions

Deadline: End of meeting, intermediate deadlines by the rapporteur.

[R2-2008883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008883.zip) IoT NTN scenarios and UE density Eutelsat S.A. discussion Rel-17

R2-2008975 Email summary discussion on NTN Scenarios applicable to NB-IoT/eMTC Eutelsat S.A. discussion Late

[R2-2009071](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009071.zip) Consideration on the scenarios for IoT over NTN ZTE Corporation, Sanechips discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009114](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009114.zip) Discussion on scenarios for NB-IoT and eMTC in NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009267](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009267.zip) oOn NB-IoT/eMTC for NTN scenarios and Performance requirements Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2009449](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009449.zip) Scenarios and assumption for IoT NTN Qualcomm Inc discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009589](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009589.zip) Discussion on scenarios for NB-IoT and eMTC NTN Xiaomi discussion Rel-17

[R2-2010237](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010237.zip) NTN IoT scope, scenarios, architecture, and requirements Ericsson discussion FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2010287](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010287.zip) Discussion on NTN scenarios for NB-IoT Huawei, HiSilicon discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

### 9.2.2 Applicability of TR 38.821

Identify the extent parts of TR38.821 can be re-used or not re-used for NB-IoT/eMTC support for NTN, identify points for necessary discussions. Focus on R2 led sub-objectives as listed in the SID: Aspects related to HARQ operation [RAN2, RAN1], General aspects related to timers (e.g. SR, DRX, etc.) [RAN2], RAN2 aspects related to idle mode and connected mode mobility: RLF-based for NB-IoT, Handover-based for eMTC [RAN2], System information enhancements [RAN2], Tracking area enhancements [RAN2]

* [AT112-e][035][IoT-NTN] Applicability of TR 38.821 (MediaTek)

A) In general, Identify the extent parts of TR38.821 can be re-used or not re-used for NB-IoT/eMTC support for NTN, identify points for necessary discussions. Focus on R2 led sub-objectives as listed in the SID

B) Specifically, cover relevant proposals in tdocs submitted to this AI.

Intended outcome: Report with agreements

Deadline: End of meeting, intermediate deadlines by the rapporteur.

[R2-2008899](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008899.zip) On User-Plane Timers in NB-IoT based NTN MediaTek Inc. discussion

[R2-2008900](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2008900.zip) On Disabling HARQ in NB-IoT based NTN MediaTek Inc. discussion

[R2-2009072](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009072.zip) Consideration on the applicability of NR NTN to IoT over NTN ZTE Corporation, Sanechips discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009113](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009113.zip) Discussion on NB-Io/eMTC support for NTN OPPO discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009450](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009450.zip) Applicability of NR NTN SI and WI solutions Qualcomm Inc discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2009591](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009591.zip) Initial discussion on NB-IoT and eMTC NTN Xiaomi discussion Rel-17

R2-2009593 Initial discussion on NB-IoT and eMTC NTN Xiaomi discussion Rel-17 Withdrawn

[R2-2009988](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2009988.zip) IoT features and applicability of NR NTN solutions for IoT over NTN Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2010247](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010247.zip) Applicability of NR NTN to NB-IoT/LTE-M UEs that support NTN Ericsson discussion FS\_LTE\_NBIOT\_eMTC\_NTN

[R2-2010288](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_112-e\Docs\R2-2010288.zip) Discussion on applicability of TR 38.821 to NTN NB-IoT Huawei, HiSilicon discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

## 9.3 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: X tdocs

Email max expectation: X threads

# 10Breakout session reports

No documents shall be submitted to this AI or its sub-AIs. It is only for at-meeting-generated contents.

Breakout session reports will be approved by email.

## 10.1 Session on LTE legacy, Mobility, DCCA, Multi-SIM and RAN slicing

R2-2010701 Report from session on LTE legacy, LTE TEI16 and NR/LTE Rel-16 Mobility Vice Chairman (Nokia)

## 10.2 Session on R16 eMIMO, CLI, PRN, RACS and R17 NTN and RedCap

R2-2010702 Report from Break-Out Session on SRVCC, CLI, PRN, eMIMO, RACS Vice Chairman (ZTE)

## 10.3 Session on eMTC

R2-2010703 Report eMTC breakout session Session chair (Ericsson)

## 10.4 Session on NR-U, Power Savings, NTN and 2-step RACH

R2-2010704 Session minutes for NR-U, Power Savings, NTN and 2-step RACH Session chair (InterDigital)

## 10.5 Session on positioning and sidelink relay

R2-2010705 Report from session on Rel-15 and 16 LTE and NR positioning Session chair (MediaTek)

## 10.6 Session on SON/MDT

R2-2010706 Report from SOM/MDT session Session chair (CMCC

## 10.7 Session on NB-IoT

R2-2010707 Report NB-IoT breakout session Session chair (Huawei)

## 10.8 Session on LTE V2X and NR V2X

R2-2010708 Report from session on LTE V2X and NR V2X Session chair (Samsung)